author index

Index of Issues: January, pp 1-160; February, pp 161-304; March, pp 305-448; April, pp 449-608; May, pp 609-776; June, pp 777-944. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

A

Abbondanzo, Susan L., 727 Abramidou, Martha, 324 Ahmed, R.P.H., 844 Ahmed, Shahid, 590 Aichberger, Karl J., 473 Alla, François, 739 Alobeid, Bachir, 43 Alsabeh, Randa, 70 Alves, Venancio F.A., 78 Anderson, Scott R., 850 Angèle, Sandra, 231 Ashenden, Michael J., 816 Ashfaq, Raheela, 226 Aune, Marthe W., 690 Awaya, Hirokazu, 644 Azevedo, Pedro M., 78

D

Badiola, Iosu Antón, 358 Bailey, David N., 754 Baker, K. Scott, 205 Ballardini, Giorgio, 211 Barcos, Maurice, 512 Bardales, Ricardo H., 654, 893 Bardellini, Elena, 758 Barenfanger, Joan, 801 Becker, Joanne L., 690 Benbih, Mohamed, 739 Ben-Dor, David, 335 Bergman, Simon, 58, 117 Berman, Jules J., 169 Bhattacharyya, Maitreyee, 844 Bianchi, Francesco B., 211 Bilalovic, Nurija, 34 Bismar, Tarek A., 557 Bitter, Mitchell A., 496 Blackall, Douglas P., S81, S89 Block, AnneMarie W., 512 Bloom, Kenneth, 620 Blystad, Anne Kirsti, 34

Bogen, Steven A., 190
Bordigoni, Pierre, 739
Bozorgmehr, Jafar, S97
Brat, Daniel J., 26, 246
Braziel, Rita M., 464
Brecher, Martin L., 512
Briggs, John R., 754
Brown, Jennifer R., 701
Brugnara, Carlo, 690
Budel, Leo, 43
Bueso-Ramos, Carlos, 402
Bulian, Pietro, 489
Buttarello, Mauro, 489
Butterfield, Joseph H., 264

C.

Cairo, Mitchell S., 384 Canadian Tuberculosis Laboratories Technical Network, The, 566 Canfield, William, 690 Cangiarella, Joan, 350 Capelozzi, Vera L., 78 Carney, J. Aidan, 850 Carrillo-Gijón, Rosario, 358 Castellano-Sanchez, Amilcar A., 246 Centeno, Barbara, 654 Ceravolo, Renato, 489 Chan, John K.C., 335 Chandrasekaran, Visalam, 590 Charles, Linda A., 138 Chen, Beiyun, 631 Chen, Chi-Long, 574 Chen, Paul Chih-Hsueh, 343, 878 Cheuk, Wah, 335 Cheville, John C., 220 Chiang, Hung, 343, 878 Chinzei, Tadanobu, 51

Chiou, Shiow-Her, 574

Choi, John K., 18 Chow, Kuan-Chih, 574 Chu, Peiguo G., 884 Chu, Wei Sing, 727 Coindre, Jean-Michel, 330 Collins, Susan M., 801 Cook, James R., 826 Costa, Maria B.G., 718 Creager, Andrew J., 58, 117 Crum, Christopher P., 87 Cushing, Melissa M., 26

n

Dager, William E., 593 Damsgaard, Rasmus, 816 Danielson, M. Susan, 810 Dasgupta, Amitava, 276, 418 da Silva, Alecsander P., 78 Debol, Steven M., 893 Deeb, George, 512 Defente, Michael, 739 DeGrauw, Antonius J., S113 De La Torre, Ignacio Garcia, 426 Demarchi, Lea M.M., 78 Deo, S.V.S., 368 D'Errico, Antonia, 211 Dier, Ken J., 142 Dinkel, J.E., 335 Dirks, Norma N., 810

Dorfman, David M., 690

Dubie, Lara M., 810

E

Eedes, Christopher R., 64 Eeles, Ros A., 231 Elder, David E., S3 Epistolato, Maria Carmela, 108 Escobar, Maura T., 537 Estey, Elihu H., 402

F

Facchetti, Fabio, 758 Falconer, Alison, 231 Farina, Gabriele, 211 Farina, Giorgio, 489 Ferri, Silvia, 211 Festa, Silvana, 758 Fiehn, W., 690 Fink, Catherine A., 142 Fink, Louis M., 124 Finkelstein, Sydney D., 671 Fischer, Edgar G., 850 Fischer, Gena, 690 Fisher, Stephen I., 727 Fitzpatrick, Patricia, 690 Flaming, Timothy H., 690 Foran Melanson, Stacy, 804 Foster, Christopher S., 231 Freedman, Arnold S., 701 Frizzera, Glauco, 43 Frost, Michael, 384

C

Gabusi, Elena, 211 Gadner, Helmut, 473 Gallo, Gloria R., 794 Garcia-Valladares, Ignacio, 426 Garippo, Ana L., 78 Geisinger, Kim R., 58, 117, 313 Geller, Stephen A., 70 Gentili, Francesca, 758 Gertz, Morie A., 787 Gilbertson, John, 176 Glassman, Armand B., 402, 836 Goldsmith, Cynthia, 26 Goldstein, Neal S., 546 Golouh, Rastko, 34 Gosselin, Robert C., 593 Gown, Allen M., 172 Grassi, Alberto, 211

author index

Index of Issues: January, pp 1-160; February, pp 161-304; March, pp 305-448; April, pp 449-608; May, pp 609-776; June, pp 777-944. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

A

Abbondanzo, Susan L., 727 Abramidou, Martha, 324 Ahmed, R.P.H., 844 Ahmed, Shahid, 590 Aichberger, Karl J., 473 Alla, François, 739 Alobeid, Bachir, 43 Alsabeh, Randa, 70 Alves, Venancio F.A., 78 Anderson, Scott R., 850 Angèle, Sandra, 231 Ashenden, Michael J., 816 Ashfaq, Raheela, 226 Aune, Marthe W., 690 Awaya, Hirokazu, 644 Azevedo, Pedro M., 78

D

Badiola, Iosu Antón, 358 Bailey, David N., 754 Baker, K. Scott, 205 Ballardini, Giorgio, 211 Barcos, Maurice, 512 Bardales, Ricardo H., 654, 893 Bardellini, Elena, 758 Barenfanger, Joan, 801 Becker, Joanne L., 690 Benbih, Mohamed, 739 Ben-Dor, David, 335 Bergman, Simon, 58, 117 Berman, Jules J., 169 Bhattacharyya, Maitreyee, 844 Bianchi, Francesco B., 211 Bilalovic, Nurija, 34 Bismar, Tarek A., 557 Bitter, Mitchell A., 496 Blackall, Douglas P., S81, S89 Block, AnneMarie W., 512 Bloom, Kenneth, 620 Blystad, Anne Kirsti, 34

Bogen, Steven A., 190
Bordigoni, Pierre, 739
Bozorgmehr, Jafar, S97
Brat, Daniel J., 26, 246
Braziel, Rita M., 464
Brecher, Martin L., 512
Briggs, John R., 754
Brown, Jennifer R., 701
Brugnara, Carlo, 690
Budel, Leo, 43
Bueso-Ramos, Carlos, 402
Bulian, Pietro, 489
Buttarello, Mauro, 489
Butterfield, Joseph H., 264

C.

Cairo, Mitchell S., 384 Canadian Tuberculosis Laboratories Technical Network, The, 566 Canfield, William, 690 Cangiarella, Joan, 350 Capelozzi, Vera L., 78 Carney, J. Aidan, 850 Carrillo-Gijón, Rosario, 358 Castellano-Sanchez, Amilcar A., 246 Centeno, Barbara, 654 Ceravolo, Renato, 489 Chan, John K.C., 335 Chandrasekaran, Visalam, 590 Charles, Linda A., 138 Chen, Beiyun, 631 Chen, Chi-Long, 574 Chen, Paul Chih-Hsueh, 343, 878 Cheuk, Wah, 335 Cheville, John C., 220 Chiang, Hung, 343, 878 Chinzei, Tadanobu, 51

Chiou, Shiow-Her, 574

Choi, John K., 18 Chow, Kuan-Chih, 574 Chu, Peiguo G., 884 Chu, Wei Sing, 727 Coindre, Jean-Michel, 330 Collins, Susan M., 801 Cook, James R., 826 Costa, Maria B.G., 718 Creager, Andrew J., 58, 117 Crum, Christopher P., 87 Cushing, Melissa M., 26

n

Dager, William E., 593 Damsgaard, Rasmus, 816 Danielson, M. Susan, 810 Dasgupta, Amitava, 276, 418 da Silva, Alecsander P., 78 Debol, Steven M., 893 Deeb, George, 512 Defente, Michael, 739 DeGrauw, Antonius J., S113 De La Torre, Ignacio Garcia, 426 Demarchi, Lea M.M., 78 Deo, S.V.S., 368 D'Errico, Antonia, 211 Dier, Ken J., 142 Dinkel, J.E., 335 Dirks, Norma N., 810

Dorfman, David M., 690

Dubie, Lara M., 810

E

Eedes, Christopher R., 64 Eeles, Ros A., 231 Elder, David E., S3 Epistolato, Maria Carmela, 108 Escobar, Maura T., 537 Estey, Elihu H., 402

F

Facchetti, Fabio, 758 Falconer, Alison, 231 Farina, Gabriele, 211 Farina, Giorgio, 489 Ferri, Silvia, 211 Festa, Silvana, 758 Fiehn, W., 690 Fink, Catherine A., 142 Fink, Louis M., 124 Finkelstein, Sydney D., 671 Fischer, Edgar G., 850 Fischer, Gena, 690 Fisher, Stephen I., 727 Fitzpatrick, Patricia, 690 Flaming, Timothy H., 690 Foran Melanson, Stacy, 804 Foster, Christopher S., 231 Freedman, Arnold S., 701 Frizzera, Glauco, 43 Frost, Michael, 384

C

Gabusi, Elena, 211 Gadner, Helmut, 473 Gallo, Gloria R., 794 Garcia-Valladares, Ignacio, 426 Garippo, Ana L., 78 Geisinger, Kim R., 58, 117, 313 Geller, Stephen A., 70 Gentili, Francesca, 758 Gertz, Morie A., 787 Gilbertson, John, 176 Glassman, Armand B., 402, 836 Goldsmith, Cynthia, 26 Goldstein, Neal S., 546 Golouh, Rastko, 34 Gosselin, Robert C., 593 Gown, Allen M., 172 Grassi, Alberto, 211

Grenache, David G., 748 Grignon, David J., 557 Groben, Pamela M., 748 Guarda, Luis A., 93 Guarner, Jeannette, 26 Guillou, Louis, 330 Guiter, Gerardo, 654 Gulbahce, H. Evin, 205 Gupta, Dilip, 176 Gupta, P.K., 844 Gupta, Ritu, 368

Н Hacek, Donna M., 801 Hahn, Elizabeth A., 537 Hall, Janet, 231 Halling, Kevin C., 373 Hamilton, Ronald L., 671 Han, Xiang Y., 581 Hanson, Curtis A., 373 Hao, Suyang, 402 Harrington, Douglas, 620 Hashimoto, Makoto, 51 Haverstick, Doris M., 790 Hayashi, Toru, 408 Heimgartner, Paul J., 373 Hennigar, Randolph A., 26 Henriksen, Hilde-Kristin, 690 Hite, Stephen, 205 Hoda, Syed A., 117 Holden, Jeannine T., 268 Holt, John B., 58 Hsiao, Cheng-Hsiang, 574 Hsieh, Eugene, 663 Hudis, Clifford A., 631 Huh, Yang O., 402 Humphrey, Peter A., 557 Hunger, Stephen P., 496

Iacobuzio-Donahue, Christine A., 226 Iczkowski, Kenneth A., 99 Idowu, Michael O., 551 Imayama, Shuhei, 408 Imoto, Shion, 51 Inai, Kouki, 644 Ivanoviene, Laima, 108

Hutchinson, Rebecca N., 496

Hytiroglou, Prodromos, 324

Hy, Janine M., 537

Jain, Paresh, 368 Jamieson, Bette A., 810 Janatpour, Kim, 593 Januzzi, James L., 804 Jarvis, Lisa, 816

Jernigan, Daniel B., 26 Jessurun, Jose, 205 Jiang, Zhong, 99 Jones, Claudia K., 898 Juco, Jonathan, 268

Kalnoski, Michael, 464 Kanhoush, Rima, 528 Kannan, M., 844 Kansal, Rina, 512 Kaplan, Batia, 794 Katzmann, Jerry A., 373 Kaul, Karen L., 537 Keller, Margaret, 393 Khalifa, Mahmoud, 663 Khoor, Andras, 200 Kikuchi, Masahiro, 408 Kimlinger, Teresa, 373 King, Jeffrey H., 593 Klatt, Edward C., 850 Kobayashi, Kazuko, 426 Krane, Jeffrey F., 87 Krauth, Maria-Theresa, 473 Kroft, Steven H., 457 Kubota, Yoshitsugu, 51 Kumagai, Shunichi, 51 Kumar, Deepa, 663 Kunicka, Jolanta E., 690 Kurihara, Kenji, 408 Kurtin, Paul J., 200

Kussick, Steven J., 464

Lackner, Karl J., 690 Ladanyi, Marc, 631 Lager, Donna J., 850 Lagoo, Anand, 246 Lai, Rebecca, 654, 893 Lal, Priti, 631 Lamps, Laura W., S71 Lanciotti, Robert, 26 Lang, Diane L., 801 Larkin, Edward C., 593 Last, Linda D., 663 Law, Calvin H.L., 663 Lecompte, Thomas, 739 Lee, Kenneth R., 87 Leong, Anthony S.-Y., 460, 679 Lesauskaite, Vaiva, 108 Lesesve, Jean-François, 739 Levine, Edward A., 58 Levine, Ellis, S33 Lewandrowski, Elizabeth Lee, Lewandrowski, Kent B., 804 Li, Chin-Yang, 264 Li, Shiyong, 246, 268

Liang, Xiayuan, 496, 810

Lichtenfels, Ana J. de F.C., 78 Lieberman, Frank S., 671 Lin, Pei, 402, 482, 836 Lin, Tze-Yi, 574 Liu, Lanting, 810 Livneh, Avi, 794 LiVolsi, Virginia A., S50 Lones, Mark A., 384 Lopez, Daniel, 142, 426 Lopez, Luis R., 142, 426 Lovell, Mark A., 496, 810 Lust, John A., 373

M Maccariello, Silvana, 211 Mahackian, Kathleen, 593 Maïcas, Emmanuel, 637 Majorana, Alessandra, 758 Makharia, Govind, 844 Mallery, Shawn, 654, 893 Manivel, J. Carlos, 205, 857 Mann, Georg, 473 Mann, Karen P., 268 Marques, Marisa B., S81, S89 Martin, Brian M., 794 Matsuki, Yasumasa, 408 Matsuura, Eiji, 426 Mauad, Thais, 718 Mauger, Joanne, 18 Mayerhofer, Matthias, 473 Mayfield, Charles A., S89 McGavran, Loris, 496, 810 McGowan, Karin L., 18 McNeese, Catherine, 418 Medeiros, L. Jeffrey, 402, 836 Meech, Sandra J., 496 Mehta, Paulette, 124 Meltesen, Lynn, 496 Merrill, Joan T., 142 Messana, Elizabeth, 190 Michelin, Carolina, 78 Michels, Jean-Jacques, 330 Midathada, Madhu V., 124 Miles, Michael V., S113 Milligan, Laura, 43 Minchello, Elaine, 690 Mito, Hisashi, 51 Mohan, Deepak, 671 Moller, Karen A., 748 Morales, Azorides R., 528 Moran, Cesar A., 867 Moreira, Andre, 350 Morice, William G., 373 Moriya, Junko, 51 Mosunjac, Mario I., 26 Moya, Tatiana, 78 Mullenix, Patricia A., 690 Murphy, Linda M., 220 Myers, Jeffrey L., 200 Myers, Michael, 690

Nadji, Mehrdad, 528 Nakashima, Yutaka, 408 Nascimento, Alessandra F., 709 Nassiri, Mehdi, 528 National Reference Centre for Mycobacteriology, 566 National Research Project for SARS, Beijing Group, 507 Nelson, Ann, 727 Nesland, Jahn M., 34 Neumann, Roxann, 220 Newell, James, 384 Nichols, Lynette S., 226 Nickolov, Angel G., 537 Niihara, Yutaka, 393 Numada, Shigehiro, 51

N O'Connell, Fionnuala P., 254 Odom, Lorrie F., 496 Okamoto, Sumika, 408 Okamura, Takashi, 408 Oshiro, Yumi, 408 Ouellette, Rodney J., 637 Owens, Rebecca, 482 Owings, John T., 593 Ozawa, Toshiyuki, 51

Palafox-Sanchez, Claudia A., 426 Pambuccian, Stefan E., 205, Pan, Chin-Chen, 343, 878 Pan, Lang-Xing, 43 Panico, Luigi, 857 Papadimitriou, Constantine S., 324 Papi, Giampaolo, S50 Patterson, James W., 13 Perkins, Sherrie L., 384 Petersen, Annette, 690 Petersen, Lyle R., 26 Peterson, Lance R., 801 Petrella, Giuseppe, 857 Pettinato, Guido, 857 Pierce, Sherry A., 402 Pinkus, Geraldine S., 254, 709 Pinkus, Jack L., 254, 709 Pochapin, Mark, 654 Powers, Celeste N., 551 Pras, Mordechai, 794 Proctor, Kerry A.S., 282

O Qian, Jiang, 246

R

Raab, Stephen S., 315 Rabe, Klaus F., 718 Ramanaryanan, Jeyanthi, S33 Ramsay, Norma K.C., 205 Rao, Lokinendi V., 282 Reiter, Evan R., 551 Richard, Dominique, 637 Ritacco, Rosalie, 663 Roberts, William L., 282 Robin, Yves-Marie, 330 Rodriguez, Jaime A., 93 Rodriguez-Peralto, Jose Luis, 358 Rollin, Pierre E., 26 Rosai, Juan, 93 Routbort, Mark J., 898 Ryder, John W., 496

S

Sadrzadeh, S.M. Hossein, S64, S97 Saffari, Yasi, S64 Saigo, Katsuyasu, 51 Salazar, Paulo A., 631 Saldiva, Paulo H.N., 78, 718 Salignac, Sylvain, 739 Sanderson, Schuyler O., 220 Sangueza, Omar P., 58 San Miguel-Fraile, Pilar, 358 Santoro, Amerigo, 758 Sapelli, Pierluigi, 758 Sasatomi, Eizaburo, 671 Saul, Melissa, 176 Sautter, Robert L., 801 Saxena, Renu, 844 Saxena, Romil, 324 Schiller, Carol L., 537 Schneeweiss, Bruno, 473 Scott, Margie A., S71

Sebo, Thomas J., 220 Selak, Ivan, 34 Sharma, Atul, 368 Sharpe, Ken, 816 Shekhter-Levin, Sofia, 826 Shen, Perry, 58 Shieh, Wun-Ju. 26 Shiratsuchi, Motoaki, 408 Sillaber, Christian, 473 Simonitsch, Ingrid, 473 Simsir, Aylin, 350 Siqueira, Sheila A.C., 718 Slezak, Jeff, 220 Smith, Andrew J., 663 Smith, Eve Y., 138 Smith, Shrita, S105 Snover, Dale C., 237 Sompuram, Seshi R., 190 Sparano, Lucianna, 857 Sperr, Wolfgang R., 473 Stankovic, Ana K., S105 Stanley, Michael W., 654, 893 Steele, Paul E., S113 Steiner, Marie E., 205 Stelow, Edward B., 893 Stewart, Carleton C., 512 Sturgis, Charles D., 537 Suba, Eric J., 315 Sun, Degin, 87 Sun, Nora C.J., 393 Susca, Micaela, 211 Suster, Saul, 867 Swalsky, Patricia A., 671 Swerdlow, Steven H., 826 Szelei-Stevens, Kathleen A., 276

T

Takagaki, Tereza, 78 Takeshima, Yukio, 644 Takeshita, Morishige, 408 Tang, Peter H., S113 Tanganelli, Piero, 108 Taniere, Phillipe, 231 Tarrand, Jeffrey J., 581 Tazelaar, Henry D., 200 Temporin, Valeria, 489 Ternstrom, Wanda, 690 Theise, Neil D., 324 Thompson, Lester D.R., 727 Tobias, Hillel, 324 Torlakovic, Emina, 34, 237 Torlakovic, Goran, 237 Tretiakova, Maria, 99 Tricot, Guido, 482 Trinh, Don. 34 Tripp, Sheryl R., 384 Trupiano, Jacqueline K., 117 Tsay, Shyh-Haw, 343

V

Valent, Peter, 473
Van Cott, Elizabeth M., 138
Vani, Kodela, 190
Varshney, Dolly, 70
Viet/American Cervical Cancer
Prevention Project, 315
Vincek, Vladimir, 528
Vollmer, Robin T., 78, 872
Volmar, Keith E., 898

W

Waner, Milton, 124 Wang, Hanlin L., 557 Wang, Helen H., 64 Wang, Xuemei, 402 Watkin, William G., 537 Wei, Qi, 496, 810 Wei, Xiao-Jun, 350 Weir, Edward, 246 Weiss, Lawrence M., 884 Wells, Alice, 418 Weng, Andrew P., 701 Wetzler, Meir, 512 Wick, Mark R., 11 Williams, Sara A., 496, 810 Wilson, Carla S., 482 Wilson, Sandra J., 690 Winston, Janet S., S33 Witt, Mallory D., 393 Woda, Bruce A., 99 Wong, Cesar S.C., 335 Wong, Kathy O.Y., 335 Wood, Brent L., 464 Woodard, Paul, 205 Wright, Frances C., 663

X

Xie, H. Bill, 898 Xu, Xiaowei, S3

٧

Yamaguchi, Nise H., 78 Yamasaki, Masahiro, 644 Yang, Ximing J., 99 Yang, Xu, 590 Yee, Herman, 350 Yin, C. Cameron, 836 Yin, Hui, 679 Yuan, Liping, 87

Z

Zaki, Sherif R., 26 Zauli, Daniela, 211 Zhao, Xiaohui, 393 Zhou, Yvonne Y., 70

title index

Index of Issues: January, pp 1-160; February, pp 161-304; March, pp 305-448; April, pp 449-608; May, pp 609-776; June, pp 777-944. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

ANATOMIC PATHOLOGY

Case Reports

E-Cadherin-Negative Primary Small Cell Carcinoma of the Breast: Report of a Case and Review of the Literature

Simon Bergman, Syed A. Hoda, Kim R. Geisinger, Andrew J. Creager, and Jacqueline K. Trupiano, 117

An Immunophenotypic Comparison of Metanephric Metaplasia of Bowman Capsular Epithelium With Metanephric Adenoma, Wilms Tumor, and Renal Development: A Case Report and Review of the Literature

Edgar G. Fischer, J. Aidan Carney, Scott R. Anderson, Edward C. Klatt, and Donna J. Lager, 850

Simultaneous EBV-Positive Lymphoepithelioma-like Carcinoma and EBV-Negative Intestinal-Type Adenocarcinoma in a Patient With Helicobacter pylori-Associated Chronic Gastritis

Goran Torlakovic, Dale C. Snover, and Emina Torlakovic, 237

Original Articles

Adenoid Cystic Carcinoma: A Pitfall in Aspiration Cytology of the Thyroid

Michael O. Idowu, Evan R. Reiter, and Celeste N. Powers, 551 Amyloid-like Pulmonary Nodules, Including Localized Light-Chain Deposition: Clinicopathologic Analysis of Three Cases

Andras Khoor, Jeffrey L. Myers, Henry D. Tazelaar, and Paul J. Kurtin, 200

An Analysis of the p63/α-Methylacyl Coenzyme A Racemase Immunohistochemical Cocktail Stain in Prostate Needle Biopsy Specimens and Tissue Microarrays

Schuyler O. Sanderson, Thomas J. Sebo, Linda M. Murphy, Roxann Neumann, Jeff Slezak, and John C. Cheville, 220 "Ancient" (Sclerosing) Thymomas: A Clinicopathologic Study of 10 Cases

Cesar A. Moran and Saul Suster, 867

Apoptosis of Cardiomyocytes in Explanted and Transplanted Hearts: Comparison of Results From In Situ TUNEL, ISEL, and **ISOL** Reactions

Vaiva Lesauskaite, Maria Carmela Epistolato, Laima Ivanoviene, and Piero Tanganelli, 108

ATM Protein Overexpression in Prostate Tumors: Possible Role in Telomere Maintenance

Sandra Angèle, Alison Falconer, Christopher S. Foster, Phillipe

Taniere, Ros A. Eeles, and Janet Hall, 231

Atypical Glandular Cells of Undetermined Significance: Outcome Predictions Based on Human Papillomavirus Testing

Jeffrey F. Krane, Kenneth R. Lee, Degin Sun, Liping Yuan, and Christopher P. Crum, 87

Barriers to Optimal Assessment of Lymph Nodes in Colorectal Cancer Specimens

Frances C. Wright, Calvin H.L. Law, Linda D. Last, Rosalie Ritacco, Deepa Kumar, Eugene Hsieh, Mahmoud Khalifa, and Andrew J. Smith, 663

The Canals of Hering Might Represent a Target of Methotrexate Hepatic Toxicity

Prodromos Hytiroglou, Hillel Tobias, Romil Saxena, Martha Abramidou, Constantine S. Papadimitriou, and Neil D. Theise, 324

Claudin 4 Protein Expression in Primary and Metastatic Pancreatic Cancer: Support for Use as a Therapeutic Target

Lynette S. Nichols, Raheela Ashfaq, and Christine A. Iacobuzio-Donahue, 226

Cost-Effectiveness of Immediate Specimen Adequacy Assessment of Thyroid Fine-Needle Aspirations

Christopher R. Eedes and Helen H. Wang, 64

COX-2, MMP-9, and Noguchi Classification Provide Additive Prognostic Information About Adenocarcinoma of the Lung: A Study of 117 Patients From Brazil

Nise H. Yamaguchi, Ana J. de F.C. Lichtenfels, Lea M.M. Demarchi, Alecsander P. da Silva, Ana L. Garippo, Venancio F.A. Alves, Carolina Michelin, Pedro M. Azevedo, Tatiana Moya, Tereza Takagaki, Paulo H. Saldiva, Robin T. Vollmer, and Vera L. Capelozzi, 78

The Cytology of Pancreatic Foamy Gland Adenocarcinoma Edward B. Stelow, Stefan E. Pambuccian, Ricardo H. Bardales, Steven M. Debol, Shawn Mallery, Rebecca Lai, and Michael W. Stanley, 893

Cytoplasmic Immunoreactivity for Thyroid Transcription Factor-1 in Hepatocellular Carcinoma: A Comparative Immunohistochemical Analysis of Four Commercial Antibodies Using a Tissue Array Technique

Chin-Chen Pan, Paul Chih-Hsueh Chen, Shyh-Haw Tsay, and Hung Chiang, 343

Detection of the M30 Neoepitope as a New Tool to Quantify Liver Apoptosis: Timing and Patterns of Positivity on Frozen and Paraffin-**Embedded Sections**

Alberto Grassi, Micaela Susca, Silvia Ferri, Elena Gabusi, Antonia D'Errico, Gabriele Farina, Silvana Maccariello,

Daniela Zauli, Francesco B. Bianchi, and Giorgio Ballardini, 211
Determination of HER-2 Status and Chromosome 17 Polysomy in
Breast Carcinomas Comparing HercepTest and PathVysion FISH
Assay

Dolly Varshney, Yvonne Y. Zhou, Stephen A. Geller, and Randa Alsabeh. 70

Differential Expression of Cytokeratins 7 and 20 and Thyroid Transcription Factor-1 in Bronchioloalveolar Carcinoma: An Immunohistochemical Study in Fine-Needle Aspiration Biopsy Specimens

Aylin Simsir, Xiao-Jun Wei, Herman Yee, Andre Moreira, and Joan Cangiarella, 350

Endoscopic Ultrasound–Guided Fine-Needle Aspiration Cytology Diagnosis of Solid-Pseudopapillary Tumor of the Pancreas: A Rare Neoplasm of Elusive Origin but Characteristic Cytomorphologic Features

Ricardo H. Bardales, Barbara Centeno, J. Shawn Mallery, Rebecca Lai, Mark Pochapin, Gerardo Guiter, and Michael W. Stanley, 654

Enhanced Accuracy and Reliability of HER-2/neu Immunohistochemical Scoring Using Digital Microscopy

Kenneth Bloom and Douglas Harrington, 620

Experience With an Automated Microwave-Assisted Rapid Tissue Processing Method: Validation of Histologic Quality and Impact on the Timeliness of Diagnostic Surgical Pathology

Azorides R. Morales, Mehdi Nassiri, Rima Kanhoush, Vladimir Vincek, and Mehrdad Nadji, 528

Expression of β-Catenin in Prostatic Adenocarcinomas: A Comparison With Colorectal Adenocarcinomas

Tarek A. Bismar, Peter A. Humphrey, David J. Grignon, and Hanlin L. Wang, 557

Expression of MUC1, MUC2, MUC5AC, and MUC6 in Atypical Adenomatous Hyperplasia, Bronchioloalveolar Carcinoma,

Adenocarcinoma With Mixed Subtypes, and Mucinous

Bronchioloalveolar Carcinoma of the Lung

Hirokazu Awaya, Yukio Takeshima, Masahiro Yamasaki, and Kouki Inai, 644

HER-2 Testing in Breast Cancer Using Immunohistochemical Analysis and Fluorescence In Situ Hybridization: A Single-Institution Experience of 2,279 Cases and Comparison of Dual-Color and Single-Color Scoring

Priti Lal, Paulo A. Salazar, Clifford A. Hudis, Marc Ladanyi, and Beivun Chen, 631

High-Risk Human Papillomavirus Detection: A Split-Sample Comparison of Hybrid Capture and Chromogenic In Situ Hybridization

Carol L. Schiller, Angel G. Nickolov, Karen L. Kaul, Elizabeth A. Hahn, Janine M. Hy, Maura T. Escobar, William G. Watkin, and Charles D. Sturgis, 537

Histologic Grading of Noninvasive Papillary Urothelial Tumors: Validation of the 1998 WHO/ISUP System by Immunophenotyping and Follow-up

Hui Yin and Anthony S.-Y. Leong, 679

Human Herpesvirus 8 Immunostaining: A Sensitive and Specific

Method for Diagnosing Kaposi Sarcoma in Paraffin-Embedded Sections

Yves-Marie Robin, Louis Guillou, Jean-Jacques Michels, and Jean-Michel Coindre, 330

Immunohistochemical Characterization of Signet-Ring Cell Carcinomas of the Stomach, Breast, and Colon

Peiguo G. Chu and Lawrence M. Weiss, 884

Immunostaining for Human Herpesvirus 8 Latent Nuclear Antigen-1 Helps Distinguish Kaposi Sarcoma From Its Mimickers

Wah Cheuk, Kathy O.Y. Wong, Cesar S.C. Wong, J.E. Dinkel, David Ben-Dor, and John K.C. Chan, 335

Invasive Micropapillary Carcinoma of the Breast: Clinicopathologic Study of 62 Cases of a Poorly Recognized Variant With Highly Aggressive Behavior

Guido Pettinato, Carlos J. Manivel, Luigi Panico, Lucianna Sparano, and Giuseppe Petrella, 857

Mesenteric Fibromatosis With Involvement of the Gastrointestinal Tract: A GIST Simulator: A Study of 25 Cases

Jaime A. Rodriguez, Luis A. Guarda, and Juan Rosai, 93 Microdissection-Based Genotyping Assists Discrimination of Reactive Gliosis From Glioma

Sydney D. Finkelstein, Deepak Mohan, Ronald L. Hamilton, Eizaburo Sasatomi, Patricia A. Swalsky, and Frank S. Lieberman, 671

A Molecular Mechanism of Formalin Fixation and Antigen Retrieval Seshi R. Sompuram, Kodela Vani, Elizabeth Messana, and Steven A. Bogen, 190

Nodal Melanocytic Nevi in Sentinel Lymph Nodes: Correlation With Melanoma-Associated Cutaneous Nevi

John B. Holt, Omar P. Sangueza, Edward A. Levine, Perry Shen, Simon Bergman, Kim R. Geisinger, and Andrew J. Creager, 58

Non-Gluten Sensitivity-Related Small Bowel Villous Flattening With Increased Intraepithelial Lymphocytes: Not All That Flattens Is Celiac Sprue

Neal S. Goldstein, 546

Overexpression of KIT (CD117) in Chromophobe Renal Cell Carcinoma and Renal Oncocytoma

Chin-Chen Pan, Paul Chih-Hsueh Chen, and Hung Chiang, 878 P504S Immunostaining Boosts Diagnostic Resolution of "Suspicious" Foci in Prostatic Needle Biopsy Specimens Zhong Jiang, Kenneth A. Iczkowski, Bruce A. Woda, Maria Tretiakova, and Ximing J. Yang, 99

Patient Age in Spitz Nevus and Malignant Melanoma: Implication of Bayes Rule for Differential Diagnosis Robin T. Vollmer, 872

Primary Pancreatic Lymphoma Evaluated by Fine-Needle Aspiration: Findings in 14 Cases

Keith E. Volmar, Mark J. Routbort, Claudia K. Jones, and H. Bill Xie, 898

Prognostic Significance of DNA Ploidy and Proliferative Index (MIB-1 Index) in Childhood Rhabdomyosarcoma

Pilar San Miguel-Fraile, Rosario Carrillo-Gijón, Jose Luis Rodriguez-Peralto, and Iosu Antón Badiola, 358

Pulmonary Nodular Lesions in Bone Marrow Transplant Recipients: Impact of Histologic Diagnosis on Patient Management and Prognosis H. Evin Gulbahce, Stefan E. Pambuccian, Jose Jessurun, Paul Woodard, Marie E. Steiner, J. Carlos Manivel, Stephen Hite, Norma K.C. Ramsay, and K. Scott Baker, 205

RT-PCR for Mammaglobin Genes, MGB1 and MGB2, Identifies Breast Cancer Micrometastases in Sentinel Lymph Nodes Rodney J. Ouellette, Dominique Richard, and Emmanuel Maïcas, 637

CLINICAL CHEMISTRY

Case Report

Endometrial Adenocarcinoma Associated With Elevated Serum Concentrations of the Free B Subunit of Human Chorionic Gonadotropin

David G. Grenache, Karen A. Moller, and Pamela M. Groben, 748

Original Articles

The Binding of Acetaminophen, Lidocaine, and Valproic Acid to Human Milk

David N. Bailey and John R. Briggs, 754

Gadolinium Magnetic Resonance Contrast Agents Produce

Analytic Interference in Multiple Serum Assays

Kerry A.S. Proctor, Lokinendi V. Rao, and William L. Roberts, 282 Improving Patient Safety by Repeating (Read-Back) Telephone Reports of Critical Information

Joan Barenfanger, Robert L. Sautter, Diane L. Lang. Susan M. Collins, Donna M. Hacek, and Lance R. Peterson, 801

Interference of Carbamazepine and Carbamazepine 10,11-Epoxide in the Fluorescence Polarization Immunoassay for Tricyclic Antidepressants: Estimation of the True Tricyclic Antidepressant Concentration in the Presence of Carbamazepine Using a Mathematical Model

Amitava Dasgupta, Catherine McNeese, and Alice Wells, 418 Neutralization of Free Digoxin-like Immunoreactive Components of Oriental Medicines Dan Shen and Lu-Shen-Wan by the Fab Fragment of Antidigoxin Antibody (Digibind)

Amitava Dasgupta and Kathleen A. Szelei-Stevens, 276 Oxidized Low-Density Lipoprotein/β₂-Glycoprotein I Complexes and Autoantibodies to oxLig-1/β₂-Glycoprotein I in Patients With Systemic Lupus Erythematosus and Antiphospholipid Syndrome

Daniel Lopez, Ignacio Garcia-Valladares, Claudia A. Palafox-Sanchez, Ignacio Garcia De La Torre, Kazuko Kobayashi, Eiji Matsuura, and Luis R. Lopez, 426

Reevaluation of Myoglobin for Acute Chest Pain Evaluation: Would False-Positive Results on "First-Draw" Specimens Lead to Increased Hospital Admissions?

Stacy Foran Melanson, Elizabeth Lee Lewandrowski, James L. Januzzi, and Kent B. Lewandrowski, 804

COAGULATION AND TRANSFUSION MEDICINE

Review Article

Recombinant Factor VIIa in the Treatment of Bleeding Madhu V. Midathada, Paulette Mehta, Milton Waner, and Louis M. Fink, 124

Original Articles

Anti-β₂-Glycoprotein I and Antiphosphatidylserine Antibodies Are Predictors of Arterial Thrombosis in Patients With Antiphospholipid Syndrome

Luis R. Lopez, Ken J. Dier, Daniel Lopez, Joan T. Merrill, and Catherine A. Fink, 142

Biphasic Activated Partial Thromboplastin Time Waveform and Adverse Events in Non-Intensive Care Unit Patients

Eve Y. Smith, Linda A. Charles, and Elizabeth M. Van Cott, 138 Effect of Direct Thrombin Inhibitors, Bivalirudin, Lepirudin, and Argatroban, on Prothrombin Time and INR Values

Robert C. Gosselin, William E. Dager, Jeffrey H. King, Kim Janatpour, Kathleen Mahackian, Edward C. Larkin, and John T. Owings, 593

Inherited Prothrombotic Defects in Budd-Chiari Syndrome and Portal Vein Thrombosis: A Study From North India

Maitreyee Bhattacharyya, Govind Makharia, M. Kannan, R.P.H. Ahmed, P.K. Gupta, and Renu Saxena, 844

Transfusion-Related Acute Lung Injury Resulting From Designated Blood Transfusion Between Mother and Child: A Report of Two Cases Xu Yang, Shahid Ahmed, and Visalam Chandrasekaran, 590

EDITORIALS

The Classification and Typing of Amyloid Deposits Morie A. Gertz, 787

Critical Value Called, Read-Back Obtained

Doris M. Haverstick, 790

Microwaves and Turnaround Times in Histoprocessing: Is This a New Era in Histotechnology?

Anthony S.-Y. Leong, 460

Monoclones, Monotypes, and Neoplasia: Pitfalls in Lymphoma Diagnosis

Steven H. Kroft, 457

Nevus Cell Aggregates in Lymph Nodes James W. Patterson, 13

Obstacles to Reducing Cervical Cancer in Vietnam Kim R. Geisinger, 313

Racing to Share Pathology Data

Jules J. Berman, 169

Scientific Ideas: Patentable Commodities?

Mark R. Wick, 11

Unmasking the Mysteries of Antigen or Epitope Retrieval and Formalin Fixation

Allen M. Gown, 172

HEMATOPATHOLOGY

Original Articles

Assessment of t(2;5)(p23;q35) Translocation and Variants in Pediatric ALK+ Anaplastic Large Cell Lymphoma

Xiayuan Liang, Sandra J. Meech, Lorrie F. Odom, Mitchell A. Bitter, John W. Ryder, MD, Stephen P. Hunger, Mark A. Lovell, Lynn Meltesen, Qi Wei, Sara A. Williams, Rebecca N. Hutchinson, and Loris McGavran, 496

Automated Flow Cytometric Analysis of Blood Cells in Cerebrospinal Fluid: Analytic Performance

Marthe W. Aune, Joanne L. Becker, Carlo Brugnara, William Canfield, David M. Dorfman, W. Fiehn, Gena Fischer, Patricia Fitzpatrick, Timothy H. Flaming, Hilde-Kristin Henriksen, Jolanta E. Kunicka, Karl J. Lackner, Elaine Minchello, Patricia A. Mullenix, Michael Myers, Annette Petersen, Wanda Ternstrom, Sandra J. Wilson, 690

Bone Marrow Biopsies for the Diagnosis of Systemic Mastocytosis: Is One Biopsy Sufficient?

Joseph H. Butterfield and Chin-Yang Li, 264

CD138 (Syndecan-1), a Plasma Cell Marker: Immunohistochemical Profile in Hematopoietic and Nonhematopoietic Neoplasms

Fionnuala P. O'Connell, Jack L. Pinkus, and Geraldine S. Pinkus, 254

Changing Pattern of AIDS: A Bone Marrow Study Xiaohui Zhao, Nora C.J. Sun, Mallory D. Witt, Margaret Keller, and Yutaka Niihara, 393

Clinicopathologic Analysis of 22 Cases of Subcutaneous Panniculitis-like CD56- or CD56+ Lymphoma and Review of 44 Other Reported Cases

Morishige Takeshita, Shuhei Imayama, Yumi Oshiro, Kenji Kurihara, Sumika Okamoto, Yasumasa Matsuki, Yutaka Nakashima, Takashi Okamura, Motoaki Shiratsuchi, Toru Hayashi, and Masahiro Kikuchi, 408

Clusterin, a Marker for Anaplastic Large Cell Lymphoma: Immunohistochemical Profile in Hematopoietic and

Nonhematopoietic Malignant Neoplasms

Alessandra F. Nascimento, Jack L. Pinkus, and Geraldine S. Pinkus, 709

Comparative Evaluation of Schistocyte Counting by an Automated Method and by Microscopic Determination

Jean-François Lesesve, Sylvain Salignac, François Alla, Michael Defente, Mohamed Benbih, Pierre Bordigoni, and Thomas Lecompte, 739

Comparative Immunohistochemical Analysis of Pediatric Burkitt Lymphoma and Diffuse Large B-Cell Lymphoma

Michael Frost, James Newell, Mark A. Lones, Sheryl R. Tripp, Mitchell S. Cairo, and Sherrie L. Perkins, 384

Eosinophil-Rich CD30+ Lymphoproliferative Disorder of the Oral Mucosa: A Form of "Traumatic Eosinophilic Granuloma"

Bachir Alobeid, Lang-Xing Pan, Laura Milligan, Leo Budel, and Glauco Frizzera, 43

Expression of bcl-6 and CD10 Protein Is Associated With Longer Overall Survival and Time to Treatment Failure in Follicular Lymphoma

Nurija Bilalovic, Anne Kirsti Blystad, Rastko Golouh, Jahn M. Nesland, Ivan Selak, Don Trinh, and Emina Torlakovic, 34

Expression of CD2 in Acute Promyelocytic Leukemia Correlates With Short Form of PML-RARα Transcripts and Poorer Prognosis

Pei Lin, Suyang Hao, L. Jeffrey Medeiros, Elihu H. Estey, Sherry A. Pierce, Xuemei Wang, Armand B. Glassman, Carlos Bueso-Ramos, and Yang O. Huh, 402

Flow Cytometric Analysis of CD5+ B Cells: A Frame of Reference for Minimal Residual Disease Analysis in Chronic Lymphocytic Leukemia Ritu Gupta, Paresh Jain, S.V.S. Deo, and Atul Sharma, 368 Flow Cytometric Assessment of TCR-V_β Expression in the Evaluation of Peripheral Blood Involvement by T-Cell Lymphoproliferative Disorders: A Comparison With Conventional T-Cell Immunophenotyping and Molecular Genetic Techniques William G. Morice, Teresa Kimlinger, Jerry A. Katzmann, John

William G. Morice, Teresa Kimlinger, Jerry A. Katzmann, John A. Lust, Paul J. Heimgartner, Kevin C. Halling, and Curtis A. Hanson, 373

Flow Cytometric Immunophenotypic Analysis of 306 Cases of Multiple Myeloma

Pei Lin, Rebecca Owens, Guido Tricot, and Carla S. Wilson, 482 Flow Cytometry in the Differential Diagnosis of Lymphocyte-Rich Thymoma From Precursor T-Cell Acute Lymphoblastic Leukemia/Lymphoblastic Lymphoma

Shiyong Li, Jonathan Juco, Karen P. Mann, and Jeannine T. Holden, 268

Histologic Patterns of Lung Infiltration of B-Cell, T-Cell, and Hodgkin Lymphomas

Maria B.G. Costa, Sheila A.C. Siqueira, Paulo H.N. Saldiva, Klaus F. Rabe, and Thais Mauad, 718

HIV-Associated Hodgkin Lymphoma: A Clinicopathologic and Immunophenotypic Study of 45 Cases

Lester D.R. Thompson, Maj Stephen I. Fisher, Wei Sing Chu, Ann Nelson, and Susan L. Abbondanzo, 727

Hodgkin Disease Associated With T-Cell Non-Hodgkin

Lymphomas: Case Reports and Review of the Literature

Jennifer R. Brown, Andrew P. Weng, and Arnold S. Freedman, 701 Immunohistochemical Detection of VEGF in the Bone Marrow of Patients With Chronic Myeloid Leukemia and Correlation With the Phase of Disease

Maria-Theresa Krauth, Ingrid Simonitsch, Karl J. Aichberger, Matthias Mayerhofer, Wolfgang R. Sperr, Christian Sillaber, Bruno Schneeweiss, Georg Mann, Helmut Gadner, and Peter Valent, 473

The Involvement of Natural Killer Cells in the Pathogenesis of Severe Acute Respiratory Syndrome

National Research Project for SARS, Beijing Group, 507
The New Reticulocyte Parameter (RET-Y) of the Sysmex XE 2100:
Its Use in the Diagnosis and Monitoring of Posttreatment
Sideropenic Anemia

Mauro Buttarello, Valeria Temporin, Renato Ceravolo, Giorgio Farina, and Pietro Bulian, 489

Noninvasive Monitoring of Hemoglobin: The Effects of WBC Counts on Measurement

Katsuyasu Saigo, Shion Imoto, Makoto Hashimoto, Hisashi Mito, Junko Moriya, Tadanobu Chinzei, Yoshitsugu Kubota, Shigehiro Numada, Toshiyuki Ozawa, Shunichi Kumagai, 51

Nonpositive Terminal Deoxynucleotidyl Transferase in Pediatric Precursor B-Lymphoblastic Leukemia

Lanting Liu, Loris McGavran, Mark A. Lovell, Qi Wei, Bette A. Jamieson, Sara A. Williams, Norma N. Dirks, M. Susan Danielson, Lara M. Dubie, and Xiayuan Liang, 810

Precursor B Lymphoblastic Leukemia With Surface Light Chain Immunoglobulin Restriction: A Report of 15 Patients

Rina Kansal, George Deeb, Maurice Barcos, Meir Wetzler, Martin L. Brecher, AnneMarie W. Block, and Carleton C. Stewart, 512 Primary Central Nervous System Posttransplant Lymphoproliferative Disorders

Amilcar A. Castellano-Sanchez, Shiyong Li, Jiang Qian, Anand Lagoo, Edward Weir, and Daniel J. Brat, 246

Prominent Clonal B-Cell Populations Identified by Flow Cytometry in Histologically Reactive Lymphoid Proliferations

Steven J. Kussick, Michael Kalnoski, Rita M. Braziel, and Brent L. Wood, 464

Standardization of Reticulocyte Values in an Antidoping Context Michael J. Ashenden, Ken Sharpe, Rasmus Damsgaard, and Lisa Jarvis, 816

t(8;21)(q22;q22) in Blast Phase of Chronic Myelogenous Leukemia C. Cameron Yin, L. Jeffrey Medeiros, Armand B. Glassman, and Pei Lin. 836

Utility of Routine Classical Cytogenetic Studies in the Evaluation of Suspected Lymphomas: Results of 279 Consecutive Lymph Node/Extranodal Tissue Biopsies

James R. Cook, Sofia Shekhter-Levin, and Steven H. Swerdlow, 826

IMMUNOPATHOLOGY

Original Articles

Biochemical Subtyping of Amyloid in Formalin-Fixed Tissue Samples Confirms and Supplements Immunohistologic Data Batia Kaplan, Brian M. Martin, Avi Livneh, Mordechai Pras, and Gloria R. Gallo, 794

Cytotoxic Molecule Expression and Epithelial Cell Apoptosis in Oral and Cutaneous Lichen Planus

Amerigo Santoro, Alessandra Majorana, Elena Bardellini, Francesca Gentili, Silvana Festa, Pierluigi Sapelli, and Fabio Facchetti, 758

INFORMATICS

Original Article

Evaluation of a Deidentification (De-Id) Software Engine to Share Pathology Reports and Clinical Documents for Research Dilip Gupta, Melissa Saul, and John Gilbertson, 176

MICROBIOLOGY AND INFECTIOUS DISEASE

Case Report

Fatal West Nile Virus Encephalitis in a Renal Transplant Recipient Melissa M. Cushing, Daniel J. Brat, Mario I. Mosunjac, Randolph A. Hennigar, Daniel B. Jernigan, Robert Lanciotti, Lyle R. Petersen, Cynthia Goldsmith, Pierre E. Rollin, Wun-Ju Shieh, Jeannette Guarner, and Sherif R. Zaki, 26

Original Articles

Detection of Severe Acute Respiratory Syndrome-Associated Coronavirus in Pneumocytes of the Lung

Kuan-Chih Chow, Cheng-Hsiang Hsiao, Tze-Yi Lin, Chi-Long Chen, and Shiow-Her Chiou, 574

Evolution of an External Quality Assessment Program in Canadian Mycobacteriology Laboratories: Three Years of Proficiency Testing

The Canadian Tuberculosis Laboratories Technical Network and the National Reference Centre for Mycobacteriology, 566 Immunohistochemical Detection of Aspergillus Species in Pediatric

John K. Choi, Joanne Mauger, and Karin L. McGowan, 18 Moraxella osloensis Blood and Catheter Infections During Anticancer Chemotherapy: Clinical and Microbiologic Studies of 10 Cases

Xiang Y. Han and Jeffrey J. Tarrand, 581

PATHOLOGY PATTERNS REVIEWS

Cat-Scratch Disease: Historic, Clinical, and Pathologic Perspectives Laura W. Lamps and Margie A. Scott, S71

Clinical Laboratory Monitoring of Coenzyme Q10 Use in Neurologic and Muscular Diseases

Paul E. Steele, Peter H. Tang, Antonius J. DeGrauw, and Michael V. Miles, S113

Current Concepts on Riedel Thyroiditis

Giampaolo Papi and Virginia A. LiVolsi, S50

Elevated Serum Potassium Values: The Role of Preanalytic Variables

Ana K. Stankovic and Shrita Smith, S105

Haptoglobin Phenotypes in Health and Disorders

S.M. Hossein Sadrzadeh and Jafar Bozorgmehr, S97

Hemolytic Uremic Syndrome Revisited: Shiga Toxin, Factor H, and Fibrin Generation

Douglas P. Blackall and Marisa B. Marques, S81

HER-2/neu Evaluation in Breast Cancer: Are We There Yet? Janet S. Winston, Jeyanthi Ramanaryanan, and Ellis Levine, S33 Iron and Brain Disorders

S.M. Hossein Sadrzadeh and Yasi Saffari, S64

A Practical Approach to Selected Problematic Melanocytic Lesions Xiaowei Xu and David E. Elder, S3

Thrombotic Thrombocytopenic Purpura: From Platelet Aggregates to Plasma

Marisa B. Marques, Charles A. Mayfield, and Douglas P. Blackall, S89

SPECIAL ARTICLE

Papanicolaou Screening in Developing Countries: An Idea Whose Time Has Come

Eric J. Suba and Stephen S. Raab, on behalf of the Viet/American Cervical Cancer Prevention Project, 315

subject index

Index of Issues: January, pp 1-160; February, pp 161-304; March, pp 305-448; April, pp 449-608; May, pp 609-776; June, pp 777-944. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

A

Abstracts of Papers, 438, 930

Aceruloplasminemia, excess brain iron and, S68

Acetaminophen, binding of, to human milk, 754

Acquired immunodeficiency syndrome. See Human immunodeficiency virus infection

Acral nevus, practical approach to selected problematic melanocytic nevi, \$19

Activated partial thromboplastin time, biphasic waveform, and adverse events in non-intensive care unit patients, 138

Acute coronary syndrome, reevaluation of myoglobin for acute chest pain evaluation, would false-positive results on "first-draw" specimens lead to increased hospital admissions?, 804

ADAMTS-13 (vWf-cleaving protease), and thrombotic thrombocytopenic purpura, S89

Adenocarcinoma

endometrial, associated with elevated serum concentrations of free β subunit of human chorionic gonadotropin, 748

COX-2, MMP-9, and Noguchi classification provide additive prognostic information about, a study of 177 patients from Brazil. 78

MUC1, MUC2, MUC5AC, and MUC6 expression in, 644 of pancreas

claudin 4 expression in primary and metastatic pancreatic cancer, support for use as therapeutic target, 226 foamy gland, cytology of, 893

of prostate

β-catenin expression in, comparison with colorectal adenocarcinomas, 557

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, analysis of, 220

simultaneous EBV-positive lymphoepithelioma-like carcinoma and EBV-negative intestinal-type, in patient with Helicobacter pylori—associated chronic gastritis, 237

Adenoma, metanephric, immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with Wilms tumor, renal development, and, a case report and review of the literature, 850

ADVIA 120

automated flow cytometric analysis of blood cells in cerebrospinal fluid, analytic performance of, 690 schistocyte counting by automated method and by microscopic determination, comparative evaluation of, 739

Alzheimer disease, excess brain iron and, S66

Amino acids, a molecular mechanism of formalin fixation and antigen retrieval, 172, 190

Amino acid sequencing, biochemical subtyping of amyloid in formalin-fixed tissue samples confirms and supplements immunohistologic data, 787, 794

Amyloid

amyloid-like pulmonary nodules, including localized lightchain deposition, clinicopathologic analysis of three cases, 200

biochemical subtyping of, in formalin-fixed tissue samples, confirms and supplements immunohistologic data, 787, 794

Amyloidosis

biochemical subtyping of amyloid in formalin-fixed tissue samples confirms and supplements immunohistologic data, 787, 794

nodular, amyloid-like nodules distinguished from, 200

Anaplastic lymphoma kinase, t(2;5)(p23;q35) translocation and variants in pediatric ALK+ anaplastic large cell lymphoma, assessment of, 496

Ancient nevus, practical approach to selected problematic melanocytic nevi, S21

Anemia

iron deficiency, new reticulocyte parameter (RET-Y) of Sysmex XE 2100, its use in diagnosis and monitoring of posttreatment sideropenic anemia, 489

microangiopathic hemolytic

hemolytic uremic syndrome characterized by, S81 thrombotic thrombocytopenic purpura and, S89

Angiogenesis

haptoglobin in, S99

VEGF in bone marrow of patients with chronic myeloid leukemia, immunohistochemical detection of, and correlation with phase of disease, 473

Angiolymphoid hyperplasia with eosinophilia, and traumatic eosinophilic granuloma, 43

Angiosarcoma, human herpesvirus 8 immunostaining for, 330, 335 Antibodies, monoclonal. See Monoclonal antibodies

Anticoagulation, direct thrombin inhibitors, effects on prothrombin time and INR values, 593

Antigen retrieval, a molecular mechanism of formalin fixation and, 172, 190

Antioxidants

coenzyme Q10, clinical laboratory monitoring of, and use in neurologic and muscular diseases, S113

haptoglobin as, S97

Antiphospholipid syndrome

anti- β_2 -glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial thrombosis in patients with, 142

oxidized low-density lipoprotein/β₂-glycoprotein I complexes and autoantibodies to oxLig- $1/\beta_2$ -glycoprotein I, in patients with systemic lupus erythematosus and, 426

Antiretroviral therapy, highly active, and changing patterns of AIDS, a bone marrow study, 393

Apoptosis

of cardiomyocytes in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISEL, and ISOL reactions, 108

epithelial cell, in oral and cutaneous lichen planus, cytotoxic molecule expression and, 758

liver, M30 as new tool to quantify, timing and patterns of positivity on frozen and paraffin-embedded sections, 211

Argatroban, effects on prothrombin time and INR values, 593

ASCP President's Message, 150, 293, 437, 600, 765, 927 Aspergillosis, immunohistochemical detection of Aspergillus

species in pediatric tissue samples, 18

Aspergillus, immunohistochemical detection of, in pediatric tissue samples, 18

Astrim, noninvasive monitoring of hemoglobin, effects of WBC counts on measurement, 51

Ataxia, Friedreich

coenzyme Q₁₀ for slowing, S113

excess brain iron and, S67

Ataxia-telangiectasia mutated gene, ATM protein overexpression in prostate tumors, possible role in telomere maintenance, 231

Athletes, standardization of reticulocyte values in antidoping context, 816

ATM protein, overexpression in prostate tumors, possible role in telomere maintenance, 231

Atypical cells, eosinophil-rich CD30+ lymphoproliferative disorder of the oral mucosa, a form of "traumatic eosinophilic granuloma," 43

Atypical glandular cells of undetermined significance, outcome predictions based on human papillomavirus testing, 87

Atypical small acinar proliferation, P504S immunostaining boosts diagnostic resolution of "suspicious" foci in prostatic biopsy specimens, 99

Atypical squamous cells, atypical glandular cells contrasted with,

Atypical squamous cells of undetermined significance, high-risk human papillomavirus detection, split-sample comparison of hybrid capture and chromogenic in situ hybridization, 537

Autoantibodies

anti-β2-glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial thrombosis in patients with antiphospholipid syndrome, 142

to oxLig-1/β2-glycoprotein I, oxidized low-density lipoprotein/β₂-glycoprotein I complexes and, in patients with systemic lupus erythematosus and antiphospholipid syndrome, 426

Automated hematology analyzers

schistocyte counting by automated method and by microscopic determination, comparative evaluation of, 739

standardization of reticulocyte values in antidoping context, 816 Sysmex XE 2100, new reticulocyte parameter (RET-Y) of, its use in diagnosis and monitoring of posttreatment sideropenic anemia, 489

Automation. See also Automated hematology analyzers

flow cytometric analysis of blood cells in cerebrospinal fluid, analytic performance of, 690

microwave-assisted tissue processing method, validation of histologic quality and impact on timeliness of diagnostic surgical pathology, 460, 528

В

Bacteria, haptoglobin's antibacterial activity, S98 Bartonella henselae, in cat-scratch disease, S71 Bartonella quintana, in cat-scratch disease, S72 Bayes theorem, patient age in Spitz nevus and malignant

melanoma, implication of Bayes rule for differential diagnosis, 872

B cells

CD5+, flow cytometric analysis of, a frame of reference for minimal residual disease analysis in chronic lymphocytic leukemia, 368

lung infiltration of B-cell, T-cell, and Hodgkin lymphomas, histologic patterns of, 718

pediatric Burkitt lymphoma and diffuse large B-cell lymphoma, comparative immunohistochemical analysis of, 384

pediatric precursor B-cell lymphoblastic leukemia, nonpositive terminal deoxynucleotidyl transferase in, 810

precursor B-cell lymphoblastic leukemia with surface light chain immunoglobulin restriction, report of 15 patients,

prominent clonal B-cell populations identified by flow cytometry in histologically reactive lymphoid proliferations, 457,

bcl-2, immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, a case report and review of the literature, 850

bcl-6, and CD10 protein expression as associated with longer overall survival and time to treatment failure in follicular lymphoma, 34

bcl-X₁, and HIV-associated Hodgkin disease, 727

Biopsy. See also Needle biopsy

bone marrow, for systemic mastocytosis diagnosis, 264 Bivalirudin, effects on prothrombin time and INR values of, 593 Bladder, noninvasive papillary urothelial tumors of, histologic grad-

ing of, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

Blast phase, of chronic myelogenous leukemia, t(8;21)(q22;q22) translocation in, 836

Blood. See also Automated hematology analyzers; Coagulation; Transfusion

assessment of TCR-V_B expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and molecular genetic techniques, 373

Moraxella osloensis infections during anticancer chemotherapy, clinical and microbiologic studies of 10 cases, 581

Blue nevi, practical approach to selected problematic melanocytic nevi, S21

Bone marrow

in AIDS patients, 393

biopsies, for systemic mastocytosis diagnosis, 264

flow cytometric immunophenotypic analysis of 306 cases of multiple myeloma, 482

transplantation, pulmonary nodular lesions in, impact of histologic diagnosis on patient management and prognosis, 205

VEGF in patients with chronic myeloid leukemia, immunohistochemical detection of, and correlation with phase of disease, 473

Book Reviews, 153, 295, 441, 601, 766, 935

Bowman capsule, immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, a case report and review of the literature, 850

Brain

iron and brain disorders, S64

primary central nervous system posttransplant lymphoproliferative disorders, 246

Breast. See also Breast carcinoma

cat-scratch disease manifesting in, S74

Breast carcinoma

enhanced accuracy and reliability of HER-2/neu immunohistochemical scoring using digital microscopy, 620

HER-2 status and chromosome 17 polysomy in breast carcinomas, comparing HercepTest and PathVysion FISH assay, 70

HER-2 testing in

assessment of, \$33

using immunohistochemical analysis and fluorescence in situ hybridization, 631

invasive micropapillary, clinicopathologic study of 62 cases of a poorly recognized variant with highly aggressive behavior, 857

primary small cell, E-cadherin-negative, report of a case and review of the literature, 117

RT-PCR for mammaglobin genes MGB1 and MGB2, as identifying micrometastases in sentinel lymph nodes, 637

signet-ring cell, immunohistochemical characterization of, 884
Breslow thickness, nodal melanocytic nevi in sentinel lymph nodes,
correlation with melanoma-associated cutaneous nevi, 13,
58

Budd-Chiari syndrome, inherited prothrombotic defects in portal vein thrombosis and, a study from north India, 844

C

E-Cadherin, E-cadherin-negative primary small cell carcinoma of the breast, report of a case and review of the literature, 117

Canada, proficiency testing in mycobacteriology laboratories, three years of data on, 566

Canals of Hering, as target of methotrexate hepatic toxicity, 324 Cancer. See also Neoplasms

Moraxella osloensis blood and catheter infections during anticancer chemotherapy, clinical and microbiologic studies of 10 cases, 581

Carbamazepine, and carbamazepine 10,11-epoxide, interference of,

in fluorescence polarization immunoassay for tricyclic antidepressants, estimate of true tricyclic antidepressant concentration in presence of carbamazepine using a mathematical model, 418

Carbamazepine 10,11-epoxide, and carbamazepine, interference of, in fluorescence polarization immunoassay for tricyclic anti-depressants, estimate of true tricyclic antidepressant concentration in presence of carbamazepine using a mathematical model, 418

Carcinoma

adenoid cystic, a pitfall in aspiration cytology of thyroid, 551 of breast. See Breast carcinoma

bronchioalveolar, differential expression of cytokeratins 7 and 20 and thyroid transcription factor-1 in, an immunohistochemical study in fine-needle aspiration biopsy specimens, 350

CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

cervical, high-risk human papillomavirus detection, split-sample comparison of hybrid capture and chromogenic in situ hybridization, 537

clusterin as marker for anaplastic large cell lymphoma, immunohistochemical profile in hematopoietic and nonhematopoietic malignant neoplasms, 709

hepatocellular, cytoplasmic immunoreactivity for thyroid transcription factor-1 in, a comparative immunohistochemical analysis of four commercial antibodies using a tissue array technique, 343

of kidney, KIT (CD117) overexpression in chromophobe renal cell carcinoma and renal oncocytoma, 878

of lung, MUC1, MUC2, MUC5AC, and MUC6 expression in, 644

signet-ring cell, of stomach, breast, and colon, immunohistochemical characterization of, 884

simultaneous EBV-positive lymphoepithelioma-like, and EBVnegative intestinal-type adenocarcinoma, in patient with Helicobacter pylori–associated chronic gastritis, 237

Cardiac troponin I, reevaluation of myoglobin for acute chest pain evaluation, would false-positive results on "first-draw" specimens lead to increased hospital admissions?, 804

Cardiomyocytes, apoptosis of, in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISEL, and ISOL reactions, 108

Carney triad, immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, a case report and review of the literature, 850

β-Catenin, expression in prostatic adenocarcinomas, comparison with colorectal adenocarcinomas, 557

Catheters, Moraxella osloensis infections during anticancer chemotherapy, clinical and microbiologic studies of 10 cases, 581

Cat-scratch disease, S71

CD2, expression in acute promyelocytic leukemia, as correlating with short form PML-RARα transcripts and poorer prognosis, 402

CD4, CD4+ cell counts in patients with AIDS-related neoplasms, 393

CD5, CD5+ B cells, flow cytometric analysis of, a frame of reference for minimal residual disease analysis in chronic lymphocytic leukemia, 368

- CD10, and bcl-6 protein expression as associated with longer overall survival and time to treatment failure in follicular lymphoma, 34
- CD30, eosinophil-rich CD30+ lymphoproliferative disorder of the oral mucosa, a form of "traumatic eosinophilic granuloma,"
- CD56, subcutaneous panniculitis-like CD56- or CD56+ lymphoma, clinicopathologic analysis of 22 cases of, and review of 44 other reported cases, 408
- CD57, immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, a case report and review of the literature, 850
- CD99, and E-cadherin-negative primary small cell carcinoma of the breast, report of a case and review of the literature, 117
- CD117 (KIT), in chromophobe renal cell carcinoma and renal oncocytoma, overexpression of, 878

CD138 (syndecan-1)

- in flow cytometric immunophenotypic analysis of 306 cases of multiple myeloma, 482
- and HIV-associated Hodgkin disease, 727
- as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254
- Celiac disease, non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546
- Central nervous system. See also Brain

and cat-scratch disease, S76

c-erbB2. See HER-2/neu

- Cerebrospinal fluid, automated flow cytometric analysis of blood cells in, 690
- Cerebrovascular disorders, excess brain iron and, S68

Cervical cancer

- atypical glandular cells of undetermined significance, outcome predictions based on human papillomavirus testing, 87
- high-risk human papillomavirus detection, split-sample comparison of hybrid capture and chromogenic in situ hybridization, 537

reducing in developing countries, 313, 315

Check Sample Abstracts, 438, 929

- Chemotherapy, Moraxella osloensis blood and catheter infections during, clinical and microbiologic studies of 10 cases, 581
- Chest pain, acute, reevaluation of myoglobin for evaluation of, would false-positive results on "first-draw" specimens lead to increased hospital admissions?, 804

- cat-scratch disease as cause of chronic lymphadenopathy in, S71 hemolytic uremic syndrome in, S81
- immunohistochemical detection of Aspergillus species in pediatric tissue samples, 18
- nonpositive terminal deoxynucleotidyl transferase in pediatric precursor B-cell lymphoblastic leukemia, 810
- pediatric Burkitt lymphoma and diffuse large B-cell lymphoma, comparative immunohistochemical analysis of, 384
- rhabdomyosarcoma in, DNA ploidy and proliferative index (MIB-1 index) in, prognostic significance of, 358
- transfusion-related acute lung injury resulting from designated blood transfusion between mother and child, report of two cases, 590
- t(2;5)(p23;q35) translocation and variants in pediatric ALK+ anaplastic large cell lymphoma, assessment of, 496
- Chinese medicine, neutralization of free digoxin-like immunoreactive

- components of Dan Shen and Lu-Shen-Wan by Fab fragment of antidigoxin antibody (Digibind), 276
- Chromatography, high-performance liquid, for coenzyme Q10 monitoring, \$113
- Chromosome 17 polysomy, and HER-2 status in breast carcinomas, comparing HercepTest and PathVvsion FISH assay, 70
- CK-MB, reevaluation of myoglobin for acute chest pain evaluation. would false-positive results on "first-draw" specimens lead to increased hospital admissions?, 804
- Claudin 4, expression in primary and metastatic pancreatic cancer, support for use as therapeutic target, 226

Clonality

- flow cytometric assessment of TCR-V_B expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and molecular genetic techniques,
- in primary pancreatic lymphoma, 893
- prominent clonal B-cell populations identified by flow cytometry in histologically reactive lymphoid proliferations, 457, 464
- t(8;21)(q22;q22) translocation in blast phase of chronic myelogenous leukemia, 836
- Clusterin, as marker for anaplastic large cell lymphoma, immunohistochemical profile in hematopoietic and nonhematopoietic malignant neoplasms, 709
- Coagulation. See also Anticoagulation; Coagulopathies disseminated intravascular, biphasic activated partial thromboplastin time waveform, and adverse events in non-intensive
- care unit patients, 138 Coagulopathies, drug-induced, recombinant factor VIIa in treatment of bleeding, 124
- Coenzyme Q10, clinical laboratory monitoring of, and use in neurologic and muscular diseases, \$113
- Colon, signet-ring cell carcinoma of, immunohistochemical characterization of, 884

Colorectal cancer

- β-catenin expression in prostatic adenocarcinoma, comparison with colorectal adenocarcinomas, 557
- lymph nodes in specimens from, barriers to optimal assessment of, 663
- Computers, deidentification software engine to share pathology reports and clinical documents for research, evaluation of,
- Confidentiality, deidentification software engine to share pathology reports and clinical documents for research, evaluation of,
- Contrast agents, magnetic resonance, produce analytic interference in multiple serum assays, 282

Correspondence, 154, 297, 768, 937

- Cost-benefit analysis, cost-effectiveness of immediate specimen adequacy assessment of thyroid fine-needle aspiration biopsy, 64
- Councilman bodies, and M30 as new tool to quantify liver apoptosis, timing and patterns of positivity on frozen and paraffinembedded sections, 211

Creatine kinase MB. See CK-MB

- Critical information, improving patient safety by repeating (readback) telephone reports of, 790, 801
- Cyclooxygenase (COX)-2, and MMP-9 and Noguchi classification provide additive prognostic information about adenocarcinoma of lung, a study of 177 patients from Brazil, 78

Cytogenetics, in suspected lymphoma evaluation, utility of classical, results of 270 consecutive lymph node/extranodal tissue biopsies, 826

Cytokeratins

cytokeratin 20 in histologic grading of noninvasive papillary urothelial tumors, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

cytokeratins 7 and 20, and thyroid transcription factor-1, differential expression of, in bronchioalveolar carcinoma, an immunohistochemical study in fine-needle aspiration biopsy specimens, 350

M30 as new tool to quantify liver apoptosis, timing and patterns of positivity on frozen and paraffin-embedded sections,

Cytology, liquid-based. See Liquid-based cytology

D

Dan Shen, neutralization of free digoxin-like immunoreactive components of, by Fab fragment of antidigoxin antibody (Digibind), 276

Data sharing, deidentification software engine to share pathology reports and clinical documents for research, evaluation of, 169, 176

Deep penetrating nevus, practical approach to selected problematic melanocytic nevi, S21

Deidentification software engine, to share pathology reports and clinical documents for research, evaluation of, 169, 176

Designated blood transfusion, transfusion-related acute lung injury resulting from, between mother and child, report of two cases, 590

Desmoid tumor, mesenteric fibromatosis with gastrointestinal involvement as GIST simulator, a study of 25 cases, 93

Developing countries, reducing cervical cancer in, 313, 315

Dietary supplements, coenzyme Q₁₀, clinical laboratory monitoring of, and use in neurologic and muscular diseases, S113

Digibind, neutralization of free digoxin-like immunoreactive components of Oriental medicines Dan Shen and Lu-Shen-Wan by, 276

Digoxin, neutralization of free digoxin-like immunoreactive components of Oriental medicines Dan Shen and Lu-Shen-Wan by Fab fragment of antidigoxin antibody (Digibind), 276

Digoxin-like immunoreactive substances, of Oriental medicines Dan Shen and Lu-Shen-Wan, neutralization of, by Fab fragment of antidigoxin antibody (Digibind), 276

Direct thrombin inhibitors, effects of bivalirudin, lepirudin, and argatroban on prothrombin time and INR values, 593

DNA, single-stranded, and cytotoxic molecule expression and epithelial cell apoptosis in oral and cutaneous lichen planus, 758

DNA laddering, apoptosis of cardiomyocytes in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISEL, and ISOL reactions, 108

DNA ploidy, and proliferative index (MIB-1 index) in childhood rhabdomyosarcoma, prognostic significance of, 358

Doping, standardization of reticulocyte values in antidoping context, 816

Drug binding, of acetaminophen, lidocaine, and valproic acid to human milk, 754

Drug interference, neutralization of free digoxin-like immunoreactive components of Dan Shen and Lu-Shen-Wan by Fab fragment of antidigoxin antibody (Digibind), 276

Duodenum, non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546

E

Encephalitis, fatal West Nile virus, in renal transplant recipient, 26 Encephalomyopathy, coenzyme $\rm Q_{10}$ and, S113

Endometrium, adenocarcinoma of, associated with elevated serum concentrations of free β subunit of human chorionic gonadotropin, 748

Endoscopic ultrasound

in fine-needle aspiration cytology diagnosis of solid-pseudopapillary tumor of pancreas, 654

pancreatic foamy gland adenocarcinoma, cytology of, 893

Enzyme-linked immunosorbent assay, anti- β_2 -glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial thrombosis in patients with antiphospholipid syndrome, 142

Eosinophilic granuloma, eosinophil-rich CD30+ lymphoproliferative disorder of the oral mucosa, a form of "traumatic eosinophilic granuloma," 43

Epitopes, a molecular mechanism of formalin fixation and antigen retrieval, 172, 190

Epstein-Barr virus

in primary central nervous system posttransplant lymphoproliferative disorders, 246

simultaneous EBV-positive lymphoepithelioma-like carcinoma and EBV-negative intestinal-type adenocarcinoma, in patient with *Helicobacter pylori*—associated chronic gastritis, 237

Error, improving patient safety by repeating (read-back) telephone reports of critical information, 790, 801

Erythrocytes. See Red blood cells

Erythropoiesis, standardization of reticulocyte values in antidoping context, 816

Erythropoietin, recombinant human, standardization of reticulocyte values in antidoping context, 816

Escherichia coli O157:H7, hemolytic uremic syndrome caused by, S81

F

Factor H, in hemolytic uremic syndrome, S81

Factor V Leiden, inherited prothrombotic defects in Budd-Chiari syndrome and portal vein thrombosis, a study from north India, 844

Factor VIIa, recombinant, in treatment of bleeding, 124

Fascin, and HIV-associated Hodgkin disease, 727

Fibrin, hemolytic uremic syndrome and generation of, S81

Fibromatosis, mesenteric, with involvement of gastrointestinal tract, as GIST simulator, a study of 25 cases, 93

Fibrosis

canals of Hering as target of methotrexate hepatic toxicity, 324 in Riedel thyroiditis, S50

Fine-needle aspiration biopsy

differential expression of cytokeratins 7 and 20 and thyroid transcription factor-1 in bronchioalveolar carcinoma, an immunohistochemical study in specimens from, 350

endoscopic ultrasound-guided, in diagnosis of solid-pseudopapillary tumor of pancreas, 654

pancreatic foamy gland adenocarcinoma, cytology of, 893

adenoid cystic carcinoma, a pitfall in aspiration cytology of,

cost-effectiveness of immediate specimen adequacy assessment of, 64

Flow cytometry

analysis of CD5+ B cells, a frame of reference for minimal residual disease analysis in chronic lymphocytic leukemia,

automated analysis of blood cells in cerebrospinal fluid, analytic performance of, 690

clonality in primary pancreatic lymphoma, confirmation of, 893 immunophenotyping by

analysis of 306 cases of multiple myeloma, 482

assessment of TCR-V_B expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and molecular genetic techniques, 373

in differential diagnosis of lymphocyte-rich thymoma from precursor T-cell lymphoblastic leukemia/lymphoblastic lymphoma, 268

precursor B-cell lymphoblastic leukemia with surface light chain immunoglobulin restriction, report of 15 patients,

prominent clonal B-cell populations identified by, in histologically reactive lymphoid proliferations, 457, 464

Fluorescence in situ hybridization

HER-2/neu evaluation in breast cancer, assessment of, S33 HER-2 status and chromosome 17 polysomy in breast carcinomas, comparing HercepTest and PathVysion FISH assay,

HER-2 testing in breast cancer using immunohistochemical analysis and, 631

Fluorescence polarization immunoassay

and neutralization of free digoxin-like immunoreactive components of Oriental medicines Dan Shen and Lu-Shen-Wan by Fab fragment of antidigoxin antibody (Digibind), 276

for tricyclic antidepressants, interference of carbamazepine and carbamazepine 10,11-epoxide in, estimate of true tricyclic antidepressant concentration in presence of carbamazepine using a mathematical model, 418

Formalin fixation, a molecular mechanism of, and antigen retrieval, 172, 190

Gadodiamide, as producing analytic interference in multiple serum

Gadolinium, magnetic resonance contrast agents, produce analytic interference in multiple serum assays, 282

Gadopentetate dimeglumine, as producing analytic interference in multiple serum assays, 282

Gadoteridol, as producing analytic interference in multiple serum assays, 282

Gadoversetamide, as producing analytic interference in multiple serum assays, 282

Gastritis, simultaneous EBV-positive lymphoepithelioma-like carcinoma and EBV-negative intestinal-type adenocarcinoma, in patient with Helicobacter pylori-associated chronic gastritis, 237

Gastroenteritis, non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546

Gastrointestinal tract

mesenteric fibromatosis with involvement of, as GIST simulator, a study of 25 cases, 93

non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546

signet-ring cell carcinoma of stomach, immunohistochemical characterization of, 884

simultaneous EBV-positive lymphoepithelioma-like carcinoma and EBV-negative intestinal-type adenocarcinoma, in patient with Helicobacter pylori-associated chronic gastritis, 237

Gene expression profiling, claudin 4 expression in primary and metastatic pancreatic cancer, support for use as therapeutic target, 226

Genotyping, microdissection-based, in discrimination of reactive gliosis from glioma, 671

Glioma, microdissection-based genotyping in discriminating reactive gliosis from, 671

Gliosis, reactive, microdissection-based genotyping in discriminating glioma from, 671

Gluten, non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546

β₂-Glycoprotein I

anti-β₂-glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial thrombosis in patients with antiphospholipid syndrome, 142

oxidized low-density lipoprotein/β₂-glycoprotein I complexes and autoantibodies to oxLig-1/β₂-glycoprotein I in patients with systemic lupus erythematosus and antiphospholipid syndrome, 426

Goiter, in Riedel thyroiditis, S50

Grading, histologic, of noninvasive papillary urothelial tumors, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

Granzyme B, in epithelial cell apoptosis in lichen planus, 758

Halo nevus, practical approach to selected problematic melanocytic nevi, S21

Haptoglobin, S97

Health Insurance Portability and Accountability Act, and deidentification software engine to share pathology reports and clinical documents for research, evaluation of, 169, 176

cat-scratch disease manifesting in, S75

transplantation of, apoptosis of cardiomyocytes in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISEL, and ISOL reactions, 108

Helicobacter pylori, simultaneous EBV-positive lymphoepithelioma-like carcinoma and EBV-negative intestinal-type adenocarcinoma, in patient with chronic gastritis associated with, 237

Hemachromatosis, excess brain iron and, S66

Hematology analyzers, automated. See Automated hematology analyzers

Hematopoietic neoplasms

CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in nonhematopoietic neoplasms and, 254

clusterin as marker for anaplastic large cell lymphoma, immunohistochemical profile in nonhematopoietic malignant neoplasms and, 709

Hemoglobin

haptoglobin binding free, S97

new reticulocyte parameter (RET-Y) of Sysmex XE 2100, its use in diagnosis and monitoring of posttreatment sideropenic anemia, 489

noninvasive monitoring of, effects of WBC counts on measurement, 51

Hemolytic uremic syndrome, and Shiga toxin, factor H, and fibrin generation, S81

Hemophilia, recombinant factor VIIa in treatment of bleeding, 124 Hemorrhage, recombinant factor VIIa in treatment of, 124

Hepatocyte paraffin 1, signet-ring cell carcinoma of stomach, breast, and colon, immunohistochemical characterization of, 884

Hepatocytes, cytoplasmic immunoreactivity for thyroid transcription factor-1 in hepatocellular carcinoma, a comparative immunohistochemical analysis of four commercial antibodies using a tissue array technique, 343

HER-2/neu

and chromosome 17 polysomy in breast carcinomas, comparing HercepTest and PathVysion FISH assay, 70

enhanced accuracy and reliability of HER-2/neu immunohistochemical scoring using digital microscopy, 620

evaluation in breast cancer, assessment of, S33

testing in breast cancer using immunohistochemical analysis and fluorescence in situ hybridization, 631

HercepTest, HER-2 status and chromosome 17 polysomy in breast carcinomas, comparing PathVysion FISH assay and, 70

Herceptin. See Trastuzumab

Histotechnology, automated microwave-assisted tissue processing method, validation of histologic quality and impact on timeliness of diagnostic surgical pathology, 460, 528

Hodgkin disease

associated with T-cell non-Hodgkin lymphomas, case reports and review of the literature, 701

HIV-associated, clinicopathologic and immunophenotypic study of 45 cases, 727

lung infiltration of B-cell and T-cell lymphomas and, histologic patterns of, 718

Human chorionic gonadotropin, endometrial adenocarcinoma associated with elevated serum concentrations of free β subunit of, 748

Human herpesvirus 8, immunostaining for

for distinguishing Kaposi sarcoma from its mimickers, 335 as sensitive and specific method for diagnosing Kaposi sarcoma in paraffin-embedded sectious, 330

Human immunodeficiency virus infection cat-scratch disease and, S76 changing pattern of AIDS, a bone marrow study, 393

Hodgkin lymphoma associated with, clinicopathologic and immunophenotypic study of 45 cases, 727

Human papillomavirus

atypical glandular cells of undetermined significance, outcome predictions based on testing for, 87

high-risk testing for, split-sample comparison of hybrid capture and chromogenic in situ hybridization, 537

reducing cervical cancer in developing countries, 313, 315

Huntington disease, coenzyme Q_{10} for slowing, S113 Hyaline globules, adenoid cystic carcinoma, a pitfall in aspiration

cytology of thyroid, 551

Hybrid capture, high-risk human papillomavirus detection, splitsample comparison of chromogenic in situ hybridization and, 537

Hyperkalemia, spurious, preanalytic variables in, S105 Hyperplasia

adenomatous, MUC1, MUC2, MUC5AC, and MUC6 expression in atypical, 644

follicular, prominent clonal B-cell populations identified by flow cytometry in histologically reactive lymphoid proliferations, 457, 464

Image analysis, enhanced accuracy and reliability of HER-2/neu immunohistochemical scoring using digital microscopy, 620

Immunocompromised patients, cat-scratch disease and, S76 Immunoglobulin light chain

amyloid-like pulmonary nodules, including localized, clinicopathologic analysis of three cases, 200

biochemical subtyping of amyloid in formalin-fixed tissue samples confirms and supplements immunohistologic data, 787, 794

Immunoglobulin-like receptors, and natural killer cell involvement in pathogenesis of severe acute respiratory syndrome, 507 Immunohistochemistry

amyloid-like pulmonary nodules, including localized light-chain deposition, clinicopathologic analysis of three cases, 200

Aspergillus species detection in pediatric tissue samples, 18 ATM protein overexpression in prostate tumors, possible role in

telomere maintenance, 231 biochemical subtyping of amyloid in formalin-fixed tissue sam-

ples confirms and supplements immunohistologic data, 787, 794

β-catenin expression in prostatic adenocarcinomas, comparison with colorectal adenocarcinomas, 557

CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

clusterin as marker for anaplastic large cell lymphoma, immunohistochemical profile in hematopoietic and nonhematopoietic malignant neoplasms, 709

COX-2, MMP-9, and Noguchi classification provide additive prognostic information about adenocarcinoma of lung, a study of 177 patients from Brazil, 78

cytoplasmic immunoreactivity for thyroid transcription factor-1 in hepatocellular carcinoma, a comparative immunohistochemical analysis of four commercial antibodies using a tissue array technique, 343

differential expression of cytokeratins 7 and 20 and thyroid transcription factor-1 in bronchioalveolar carcinoma, an immunohistochemical study in fine-needle aspiration biopsy specimens, 350

enhanced accuracy and reliability of HER-2/neu scoring using digital microscopy, 620

fatal West Nile virus encephalitis in renal transplant recipient,

HER-2/neu evaluation in breast cancer, assessment of, S33

HER-2 status and chromosome 17 polysomy in breast carcinomas, comparing HercepTest and PathVysion FISH assay,

HER-2 testing in breast cancer using fluorescence in situ hybridization and, 631

invasive micropapillary carcinoma of the breast, clinicopathologic study of 62 cases of a poorly recognized variant with highly aggressive behavior, 857

KIT (CD117) overexpression in chromophobe renal cell carcinoma and renal oncocytoma, 878

melanocytic nevi, practical approach to selected problematic, S3 a molecular mechanism of formalin fixation and antigen retrieval, 172, 190

MUC1, MUC2, MUC5AC, and MUC6 expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, analysis of, 220

pediatric Burkitt lymphoma and diffuse large B-cell lymphoma, comparative analysis of, 384

signet-ring cell carcinoma of stomach, breast, and colon, characterization of, 884

VEGF in bone marrow of patients with chronic myeloid leukemia, immunohistochemical detection of, and correlation with phase of disease, 473

Immunophenotyping

CD2 expression in acute promyelocytic leukemia, as correlating with short form PML-RARa transcripts and poorer prognosis, 402

by flow cytometry

analysis of 306 cases of multiple myeloma, 482

assessment of TCR-V8 expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with molecular genetic techniques and conventional T cell, 373

in differential diagnosis of lymphocyte-rich thymoma from precursor T-cell lymphoblastic leukemia/lymphoblastic lymphoma, 268

precursor B-cell lymphoblastic leukemia with surface light chain immunoglobulin restriction, report of 15 patients,

histologic grading of noninvasive papillary urothelial tumors, validation of 1998 WHO/ISUP system by, 679

HIV-associated Hodgkin disease, 727

metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, comparison of, a case report and review of the literature, 850

nonpositive terminal deoxynucleotidyl transferase in pediatric precursor B-cell lymphoblastic leukemia, 810

Immunostaining

for human herpesvirus 8

for distinguishing Kaposi sarcoma from its mimickers, 335 as sensitive and specific method for diagnosing Kaposi sarcoma in paraffin-embedded sections, 330

for P504S, boosts diagnostic resolution of "suspicious" foci in prostatic biopsy specimens, 99

Immunosuppression. See also Human immunodeficiency virus infection; Immunocompromised patients

fatal West Nile virus encephalitis in renal transplant recipient, 26 primary central nervous system posttransplant lymphoproliferative disorders, 246

Infection, Moraxella osloensis blood and catheter, during anticancer chemotherapy, clinical and microbiologic studies of 10 cases, 581

In Memoriam

David C. Dahlin, 151

Saul Kay, 928

Henry Rappaport, 294

In situ end labeling, apoptosis of cardiomyocytes in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISOL, and, 108

In situ hybridization. See also Fluorescence in situ hybridization chromogenic, high-risk human papillomavirus detection, splitsample comparison of hybrid capture and, 537

severe acute respiratory syndrome-associated coronavirus detected in pneumocytes of lung, 574

In situ oligoligation, apoptosis of cardiomyocytes in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISEL, and, 108

Intellectual property, 11

Interference. See also Drug interference

by carbamazepine and carbamazepine 10,11-epoxide, in fluorescence polarization immunoassay for tricyclic antidepressants, estimate of true tricyclic antidepressant concentration in presence of carbamazepine using a mathematical model, 418

by gadolinium magnetic resonance contrast agents in multiple serum assays, 282

International normalized ratio, direct thrombin inhibitors' effect on,

International Society of Urological Pathology classification, histologic grading of noninvasive papillary urothelial tumors of, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

Iron

and brain disorders, S64

haptoglobin preventing loss of following hemolysis, S97 Iron deficiency anemia, new reticulocyte parameter (RET-Y) of Sysmex XE 2100, its use in diagnosis and monitoring of posttreatment sideropenic anemia, 489

Karyotype, classical cytogenetics in evaluation of suspected lymphoma, utility of, results of 270 consecutive lymph node/extranodal tissue biopsies, 826

Ki-67, in histologic grading of noninvasive papillary urothelial tumors, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

Kidney

haptoglobin as preventing damage after hemolysis, \$98 hemolytic uremic syndrome in renal failure, S81

immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, a case report and review of the literature, 850

KIT (CD117) overexpression in chromophobe renal cell carcinoma and renal oncocytoma, 878

recombinant factor VIIa in treatment of bleeding associated with renal failure, 124

transplantation of, fatal West Nile virus encephalitis in recipient, 26 Kimura disease, and traumatic eosinophilic granuloma, 43

KIT (CD117), in chromophobe renal cell carcinoma and renal oncocytoma, overexpression of, 878

Larynx, adenoid cystic carcinoma of, 551

Latent nuclear antigen-1 of human herpesvirus 8

for distinguishing Kaposi sarcoma from its mimickers, 335 for Kaposi sarcoma diagnosis, 330

Lepirudin, effects on prothrombin time and INR values, 593 Leukemia

acute promyelocytic, CD2 expression in, as correlating with short form PML-RARa transcripts and poorer prognosis, 402

chronic lymphocytic, flow cytometric analysis of CD5+ B cells, a frame of reference for minimal residual disease analysis

chronic myelogenous, t(8;21)(q22;q22) translocation in blast phase of, 836

chronic myeloid, VEGF in bone marrow of patients with, immunohistochemical detection of, and correlation with phase of disease, 473

precursor B-cell lymphoblastic

nonpositive terminal deoxynucleotidyl transferase in pediatric, 810

with surface light chain immunoglobulin restriction, report of 15 patients, 512

precursor T-cell lymphoblastic, differential diagnosis from lymphocyte-rich thymoma, flow cytometry in, 268

Leukocytes. See White blood cells

Lichen planus, oral and cutaneous, cytotoxic molecule expression and epithelial cell apoptosis in, 758

Lidocaine, binding of, to human milk, 754

Light-chain deposition disease

amyloid-like pulmonary nodules, including localized, clinicopathologic analysis of three cases, 200

biochemical subtyping of amyloid in formalin-fixed tissue samples confirms and supplements immunohistologic data, 787, 794

Liquid-based cytology, for reducing cervical cancer in developing countries, 313, 315

Liver

apoptosis, M30 as new tool to quantify, timing and patterns of positivity on frozen and paraffin-embedded sections, 211

canals of Hering as target of methotrexate hepatic toxicity, 324 cat-scratch disease manifesting in, S75

hepatocellular carcinoma, cytoplasmic immunoreactivity for thyroid transcription factor-1 in, a comparative immunohistochemical analysis of four commercial antibodies using a tissue array technique, 343

recombinant factor VIIa in treatment of bleeding, 124

Loss of heterozygosity, and microdissection-based genotyping, in discrimination of reactive gliosis from glioma, 671

Low-density lipoprotein, oxidized, and β₂-glycoprotein I complexes and autoantibodies to oxLig-1/β₂-glycoprotein I in patients with systemic lupus erythematosus and antiphospholipid syndrome, 426

Lung. See also Lung cancer

amyloid-like pulmonary nodules, including localized light-chain deposition, clinicopathologic analysis of three cases, 200

cat-scratch disease manifesting in, S75

nodular lesions, in bone marrow transplant recipients, impact of histologic diagnosis on patient management and prognosis, 205

severe acute respiratory syndrome-associated coronavirus detected in pneumocytes of, 574

transfusion-related acute lung injury resulting from designated blood transfusion between mother and child, report of two cases, 590

Lung cancer

adenocarcinoma, COX-2, MMP-9, and Noguchi classification provide additive prognostic information about, a study of 177 patients from Brazil, 78

differential expression of cytokeratins 7 and 20 and thyroid transcription factor-1 in bronchioalveolar carcinoma, an immunohistochemical study in fine-needle aspiration biopsy specimens, 350

infiltration of B-cell, T-cell, and Hodgkin lymphomas, histologic patterns of, 718

MUC1, MUC2, MUC5AC, and MUC6 expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644

Lupus erythematosus, systemic

anti-β₂-glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial thrombosis in patients with antiphospholipid syndrome, 142

oxidized low-density lipoprotein/β₂-glycoprotein I complexes and autoantibodies to oxLig-1/β₂-glycoprotein I in patients with antiphospholipid syndrome and, 426

Lu-Shen-Wan, neutralization of free digoxin-like immunoreactive components of, by Fab fragment of antidigoxin antibody (Digibind), 276

Lymphadenitis, subacute regional, S72

Lymph nodes

cat-scratch disease as cause of chronic lymphadenopathy,

classical cytogenetics in evaluation of suspected lymphoma, utility of, results of 270 consecutive lymph node/extranodal tissue biopsies, 826

in colorectal cancer specimens, barriers to optimal assessment of, 663

sentinel

nodal melanocytic nevi in, correlation with melanoma-associated cutaneous nevi, 13, 58

RT-PCR for mammaglobin genes MGB1 and MGB2, as identifying breast cancer micrometastases in, 637

Lymphocytes, villous intraepithelial, non-gluten sensitivity-related small bowel villous flattening with increased, 546

Lymphoepithelioma, simultaneous EBV-positive lymphoepithelioma-like carcinoma and EBV-negative intestinal-type adenocarcinoma, in patient with Helicobacter pylori-associated chronic gastritis, 237

Lymphoma

anaplastic large cell

clusterin as marker for, immunohistochemical profile in hematopoietic and nonhematopoietic malignant neoplasms,

t(2;5)(p23;q35) translocation and variants in pediatric ALK+, assessment of, 496

classical cytogenetics in evaluation of suspected, utility of, results of 270 consecutive lymph node/extranodal tissue biopsies, 826

follicular, bcl-6 and CD10 protein expression as associated with longer overall survival and time to treatment failure in, 34

lung infiltration of B-cell, T-cell, and Hodgkin, histologic patterns of, 718

malignant, CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

pediatric Burkitt and diffuse large B-cell, comparative immunohistochemical analysis of, 384

as primary central nervous system posttransplant lymphoproliferative disorder, 246

primary pancreatic, fine-needle aspiration in evaluation of, 893 prominent clonal B-cell populations identified by flow cytometry in histologically reactive lymphoid proliferations, 457,

subcutaneous panniculitis-like CD56- or CD56+, clinicopathologic analysis of 22 cases of, and review of 44 other reported cases, 408

T-cell lymphoblastic, differential diagnosis from lymphocyterich thymoma, flow cytometry in, 268

T-cell non-Hodgkin, Hodgkin disease associated with, case reports and review of the literature, 701

Lymphoproliferative disorders

assessment of TCR-V_B expression in evaluation of peripheral blood involvement by T-cell, a comparison with conventional T cell immunophenotyping and molecular genetic techniques, 373

eosinophil-rich CD30+, of the oral mucosa, a form of "traumatic eosinophilic granuloma," 43

posttransplant, primary central nervous system, 246

M30, as new tool to quantify liver apoptosis, timing and patterns of positivity on frozen and paraffin-embedded sections, 211

Mab-WF-AF-1, immunohistochemical detection of Aspergillus species in pediatric tissue samples, 18

Magnetic resonance imaging, gadolinium, contrast agents produce analytic interference in multiple serum assays, 282

Mammaglobin genes, RT-PCR for MGB1 and MGB2, as identifying breast cancer micrometastases in sentinel lymph nodes, 637 Marrow. See Bone marrow

Mastocytosis, systemic, bone marrow biopsies for diagnosis of, 264 Matrix metalloproteinase (MMP)-9, and COX-2 and Noguchi classification provide additive prognostic information about adenocarcinoma of lung, a study of 177 patients from Brazil, 78

Mediastinum, "ancient" (sclerosing) thymomas of, clinicopathologic study of 10 cases, 867

Medicine, Oriental traditional, neutralization of free digoxin-like immunoreactive components of Dan Shen and Lu-Shen-Wan by Fab fragment of antidigoxin antibody (Digibind), 276

Melanocytic nevi

practical approach to selected problematic, \$3

in sentinel lymph nodes, correlation with melanoma-associated cutaneous nevi, 13, 58

Melanoma

malignant, patient age in Spitz nevus and, implication of Bayes rule for differential diagnosis, 872

melanocytic nevi

nodal, in sentinel lymph nodes, correlation with melanomaassociated cutaneous nevi, 13, 58

practical approach to selected problematic, S3

Mesentery, mesenteric fibromatosis, with involvement of gastrointestinal tract, as GIST simulator, a study of 25 cases, 93

Metaplasia

intestinal, signet-ring cell carcinoma of stomach, breast, and colon, immunohistochemical characterization of, 884

metanephric, of Bowman capsular epithelium, immunophenotypic comparison of metanephric adenoma, Wilms tumor, and renal development with, a case report and review of the literature, 850

Metastasis, micrometastases of breast cancer in sentinel lymph nodes, RT-PCR for mammaglobin genes MGB1 and MGB2 as identifying, 637

Methotrexate, canals of Hering as target of hepatic toxicity, 324 α-Methylacyl coenzyme A racemase

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, analysis of, 220

P504S immunostaining boosts diagnostic resolution of "suspicious" foci in prostatic biopsy specimens, 99

MGB1, RT-PCR for, as identifying breast cancer micrometastases in sentinel lymph nodes, 637

MGB2, RT-PCR for, as identifying breast cancer micrometastases in sentinel lymph nodes, 637

MIB-1, DNA ploidy and proliferative index (MIB-1 index) in childhood rhabdomyosarcoma, prognostic significance of, 358

Microdissection-based genotyping, in discrimination of reactive gliosis from glioma, 671

Microextraction, biochemical subtyping of amyloid in formalinfixed tissue samples confirms and supplements immunohistologic data, 787, 794

Micrometastases, of breast cancer in sentinel lymph nodes, RT-PCR for mammaglobin genes MGB1 and MGB2 as identifying,

Microscopy

digital, enhanced accuracy and reliability of HER-2/neu immunohistochemical scoring using, 620

optical, schistocyte counting by automated method and by microscopic determination, comparative evaluation of, 739 Microwaves, automated microwave-assisted tissue processing method, validation of histologic quality and impact on timeliness of diagnostic surgical pathology, 460, 528

Milk, human, binding of acetaminophen, lidocaine, and valproic acid to, 754

Minimal residual disease analysis, in chronic lymphocytic leukemia, flow cytometric analysis of CD5+ B cells, a frame of reference for, 368

Mitochondria, coenzyme Q₁₀ for diseases of, S113

Molecular diagnostics, microdissection-based genotyping, in discrimination of reactive gliosis from glioma, 671

Molecular genetics, flow cytometric assessment of TCR-V $_{\beta}$ expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and, 373

Monoclonal antibodies

human herpesvirus 8 latent nuclear antigen-1 for distinguishing Kaposi sarcoma from its mimickers, 330 for Kaposi sarcoma diagnosis, 330

immunohistochemical detection of Aspergillus species in pediatric tissue samples, 18

M30, as new tool to quantify liver apoptosis, timing and patterns of positivity on frozen and paraffin-embedded sections, 211

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, 220

P504S immunostaining boosts diagnostic resolution of "suspicious" foci in prostatic biopsy specimens, 99

Moraxella osloensis, blood and catheter infections by, during anticancer chemotherapy, clinical and microbiologic studies of 10 cases, 581

Morphometry, COX-2, MMP-9, and Noguchi classification provide additive prognostic information about adenocarcinoma of lung, a study of 177 patients from Brazil, 78

Mothers, transfusion-related acute lung injury resulting from designated blood transfusion between mother and child, report of two cases, 590

Mouth mucosa, eosinophil-rich CD30+ lymphoproliferative disorder of the, a form of "traumatic eosinophilic granuloma," 43

MUC1, expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644

MUC2, expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644

MUC5AC, expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644

MUC6, expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644

Mucin

MUC1, MUC2, MUC5AC, and MUC6 expression in atypical adenomatous hyperplasia, bronchioalveolar carcinoma, adenocarcinoma with mixed subtypes, and mucinous bronchioalveolar carcinoma of the lung, 644 signet-ring cell carcinoma of stomach, breast, and colon, immunohistochemical characterization of, 884

Mucosa, oral. See Mouth mucosa

Multiple sclerosis, excess brain iron and, S67

Multiple serum assays, gadolinium magnetic resonance contrast agents produce analytic interference in, 282

Mutations, and microdissection-based genotyping, in discrimination of reactive gliosis from glioma, 671

Mycobacteriology, evolution of external quality assessment program in Canadian laboratories, three years of proficiency testing data, 566

Mycoplasma pneumoniae, and natural killer cell involvement in pathogenesis of severe acute respiratory syndrome, 507 Myeloma, multiple

CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

flow cytometric immunophenotypic analysis of 306 cases of, 482

Myocardial infarction, acute, reevaluation of myoglobin for acute chest pain evaluation, would false-positive results on "first-draw" specimens lead to increased hospital admissions?, 804

Myofibroblastic proliferation, mesenteric fibromatosis with gastrointestinal involvement as GIST simulator, a study of 25 cases, 93

Myoglobin, for acute chest pain evaluation, reevaluation of, would false-positive results on "first-draw" specimens lead to increased hospital admissions?, 804

N

Natural killer cells

in pathogenesis of severe acute respiratory syndrome, 507 subcutaneous panniculitis-like CD56- or CD56+ lymphoma, clinicopathologic analysis of 22 cases of, and review of 44 other reported cases, 408

Near-infrared radiation, in noninvasive monitoring of hemoglobin, effects of WBC counts on measurement, 51

Needle biopsy. See also Fine-needle aspiration biopsy prostatic

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in specimens and tissue microarrays from, 220

P504S immunostaining boosts diagnostic resolution of "suspicious" foci in specimens from, 99

Neoepitopes, M30 as new tool to quantify liver apoptosis, timing and patterns of positivity on frozen and paraffin-embedded sections. 211

Neoplasms. See also sites and types by name

in AIDS patients, a bone marrow study, 393

Neurodegenerative diseases, coenzyme ${\bf Q}_{10}$ for slowing, S113 Nevi, melanocytic

nodal, in sentinel lymph nodes, correlation with melanomaassociated cutaneous nevi, 13, 58

practical approach to selected problematic, S3

News and Notices, 156, 299, 442, 771

Nitric oxide, haptoglobin as inhibiting, \$98

Nodules, pulmonary

amyloid-like, including localized light-chain deposition, clinicopathologic analysis of three cases, 200

in bone marrow transplant recipients, impact of histologic diagnosis on patient management and prognosis, 205

Noguchi classification, COX-2 and MMP-9 provide additive prognostic information about adenocarcinoma of lung, a study of 177 patients from Brazil, 78

Noninvasive monitoring, of hemoglobin, effects of WBC counts on measurement, 51

Oculoglandular cat-scratch disease, S74

Oncocytoma, renal, KIT (CD117) overexpression in chromophobe renal cell carcinoma and, 878

Organ transplantation. See Transplantation Osteomyelitis, cat-scratch-disease-related, S76

p53, in histologic grading of noninvasive papillary urothelial tumors, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

p63, p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, analysis of, 220

P504S

immunostaining boosts diagnostic resolution of "suspicious" foci in prostatic biopsy specimens, 99

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, analysis of, 220

Pancreas

adenocarcinoma of

claudin 4 expression in primary and metastatic pancreatic cancer, support for use as therapeutic target, 226 foamy gland, cytology of, 893

primary lymphoma of, fine-needle aspiration in evaluation of,

solid-pseudopapillary tumor of, endoscopic ultrasound-guided fine needle aspiration cytology diagnosis of, 654

Panniculitis, subcutaneous panniculitis-like CD56- or CD56+ lymphoma, clinicopathologic analysis of 22 cases of, and review of 44 other reported cases, 408

Papanicolaou smear, for reducing cervical cancer in developing countries, 313, 315

Papillary tumors, histologic grading of noninvasive papillary urothelial tumors, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

Paraffin embedded tissue, immunohistochemical detection of Aspergillus species in pediatric tissue samples, 18

Parkinson disease

coenzyme Q₁₀ for slowing, S113 excess brain iron and, S67

Parvovirus B19, and changing patterns of AIDS, a bone marrow study, 393

Patents, for scientific ideas, 11

Pathology. See also Surgical pathology

deidentification software engine to share pathology reports and clinical documents for research, evaluation of, 169, 176

PathVysion FISH assay, HER-2 status and chromosome 17 polysomy in breast carcinomas, comparing HercepTest and, 70

Patient safety, improving by repeating (read-back) telephone reports of critical information, 790, 801

Peptides, a molecular mechanism of formalin fixation and antigen retrieval, 172, 190

Perforin, in epithelial cell apoptosis in lichen planus, 758

Peripheral blood, assessment of TCR-V_B expression in evaluation of involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and molecular genetic techniques, 373

Phage display, a molecular mechanism of formalin fixation and antigen retrieval, 172, 190

Phosphatidylserines, anti-β₂-glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial thrombosis in patients with antiphospholipid syndrome, 142

Physician's practice patterns, barriers to optimal assessment of lymph nodes in colorectal cancer specimens, 663

Plasma cells

CD138 (syndecan-1), as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

flow cytometric immunophenotypic analysis of 306 cases of multiple myeloma, 482

Plasmapheresis, for thrombotic thrombocytopenic purpura, S89 Platelet disorders, recombinant factor VIIa in treatment of bleeding,

PML-RARα fusion transcript, CD2 expression in acute promyelocytic leukemia, as correlating with short form of, and poorer prognosis, 402

Pneumocytes, severe acute respiratory syndrome-associated coronavirus detected in, 574

Polymerase chain reaction

for human papillomavirus, atypical glandular cells of undetermined significance, outcome predictions based on, 87

and microdissection-based genotyping, in discrimination of reactive gliosis from glioma, 671

prominent clonal B-cell populations identified by flow cytometry in histologically reactive lymphoid proliferations, 457, 464

reverse transcriptase

CD2 expression in acute promyelocytic leukemia, as correlating with short form PML-RARa transcripts and poorer prognosis, 402

for mammaglobin genes MGB1 and MGB2, as identifying breast cancer micrometastases in sentinel lymph nodes, 637 severe acute respiratory syndrome-associated coronavirus detected in pneumocytes of lung, 574

Portal vein, thrombosis of, inherited prothrombotic defects in Budd-Chiari syndrome and, a study from north India, 844

Postoperative hemorrhage, recombinant factor VIIa in treatment of,

Potassium, elevated serum values of, role of preanalytic variables in, S105

Preanalytic variables, in elevated serum potassium values, \$105 Pregnancy, recombinant factor VIIa in treatment of bleeding associated with, 124

Proficiency testing, in Canadian mycobacteriology laboratories, three years of data on, 566

Prognostic factors, DNA ploidy and proliferative index (MIB-1 index) in childhood rhabdomyosarcoma, prognostic significance of, 358

Prognostic markers, COX-2, MMP-9, and Noguchi classification provide additive prognostic information about adenocarcinoma of lung, a study of 177 patients from Brazil, 78

Proliferative index (MIB-1 index), and DNA ploidy in childhood rhabdomyosarcoma, prognostic significance of, 358

Prostaglandins, haptoglobin as inhibiting, S99

Prostate cancer

ATM protein overexpression in, possible role in telomere maintenance, 231

β-catenin expression in prostatic adenocarcinoma, comparison with colorectal adenocarcinomas, 557

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and tissue microarrays, analysis of, 220

P504S immunostaining boosts diagnostic resolution of "suspicious" foci in prostatic biopsy specimens, 99

Prothrombin time, direct thrombin inhibitors' effect on, 593

Prothrombotic defects, inherited, in Budd-Chiari syndrome and portal vein thrombosis, a study from north India, 844

Pseudohyperkalemia, preanalytic variables in, S105

Pseudopapillary tumor

invasive micropapillary carcinoma of the breast, clinicopathologic study of 62 cases of a poorly recognized variant with highly aggressive behavior, 857

solid, of pancreas, endoscopic ultrasound–guided fine needle aspiration cytology diagnosis of, 654

Psoriasis, canals of Hering as target of methotrexate hepatic toxicity, 324

N

Quality assurance, evolution of external program for, in Canadian mycobacteriology laboratories, three years of proficiency testing data, 566

R

Read-back, improving patient safety by repeating telephone reports of critical information, 790, 801

Red blood cell (RBC) count, automated flow cytometric analysis of blood cells in cerebrospinal fluid, analytic performance of,

Red blood cells, schistocyte counting by automated method and by microscopic determination, comparative evaluation of, 739

Research, deidentification software engine to share pathology reports and clinical documents for research, evaluation of, 169, 176

Restless legs syndrome, iron deficiency in brain and, S66 Reticulocyte counts

new reticulocyte parameter (RET-Y) of Sysmex XE 2100, its use in diagnosis and monitoring of posttreatment sideropenic anemia, 489

standardization of reticulocyte values in antidoping context, 816 Rhabdomyosarcoma, childhood, DNA ploidy and proliferative index (MIB-1 index) in, prognostic significance of, 358 Riedel thyroiditis, S50

S

Safe-harbor elements, deidentification software engine to share pathology reports and clinical documents for research, evaluation of, 169, 176

Sarcoma

CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

childhood rhabdomyosarcoma, DNA ploidy and proliferative index (MIB-1 index) in, prognostic significance of, 358

Kaposi, human herpesvirus 8 immunostaining for diagnosing, 330, 335

Schistocytes, counting by automated method and by microscopic determination, comparative evaluation of, 739

Scientific ideas, patentability of, 11

Sclerosis, "ancient" (sclerosing) thymomas, clinicopathologic study of 10 cases, 867

Screening, for cervical cancer in developing countries, 313, 315 Severe acute respiratory syndrome

coronavirus associated with detected in pneumocytes of lung,

natural killer cell involvement in pathogenesis of, 507

Shiga toxin, in hemolytic uremic syndrome, S81

Shigella dysenteriae, hemolytic uremic syndrome caused by, S83 Sinusitis, Moraxella osloensis blood and catheter infections, during

anticancer chemotherapy, clinical and microbiologic studies of 10 cases, 581

Specimen adequacy, thyroid fine-needle aspiration biopsy, costeffectiveness of immediate specimen adequacy assessment of, 64

Spitz nevus

and malignant melanoma, patient age in, implication of Bayes rule for differential diagnosis, 872

practical approach to selected problematic melanocytic nevi, \$11

Spitzoid lesions, practical approach to selected problematic melanocytic nevi, S11

Spleen, cat-scratch disease manifesting in, S75

Sports, standardization of reticulocyte values in antidoping context, 816

Sprue, non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546

Standardization, of reticulocyte values in antidoping context, 816 Statin-induced myopathy, coenzyme Q_{10} and, S113

Stomach, signet-ring cell carcinoma of, immunohistochemical characterization of, 884

Stromal tumors, gastrointestinal

immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, Wilms tumor, and renal development, a case report and review of the literature, 850

mesenteric fibromatosis as simulator of, a study of 25 cases, 93 Surface immunoglobulin light chain, precursor B-cell lymphoblastic

leukemia with surface light chain immunoglobulin restriction, report of 15 patients, 512

Surfactant, severe acute respiratory syndrome-associated coronavirus detected in pneumocytes of lung, 574

Surgical pathology, automated microwave-assisted tissue processing method, validation of histologic quality and impact on timeliness of diagnostic, 460, 528

Survival rate, bcl-6 and CD10 protein expression as associated with longer overall survival and time to treatment failure in follicular lymphoma, 34

Syndecan-1. See CD138 (syndecan-1)

Sysmex XE 2100, new reticulocyte parameter (RET-Y) of, its use in diagnosis and monitoring of posttreatment sideropenic anemia, 489

T-cell receptor, assessment of TCR-V_B expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and molecular genetic techniques,

T cell-restricted intracellular antigen (Tia-1), in epithelial cell apoptosis in lichen planus, 758

T cells

assessment of TCR-V $_{\rm B}$ expression in evaluation of peripheral blood involvement by T-cell lymphoproliferative disorders, a comparison with conventional T cell immunophenotyping and molecular genetic techniques, 373

eosinophil-rich CD30+ lymphoproliferative disorder of the oral mucosa, a form of "traumatic eosinophilic granuloma," 43

Hodgkin disease associated with T-cell non-Hodgkin lymphoma, case reports and review of the literature, 701

lung infiltration of B-cell, T-cell, and Hodgkin lymphomas, histologic patterns of, 718

precursor T-cell lymphoblastic leukemia/lymphoblastic lymphoma, differential diagnosis from lymphocyte-rich thymoma, flow cytometry in, 268

subcutaneous panniculitis-like CD56- or CD56+ lymphoma, clinicopathologic analysis of 22 cases of, and review of 44 other reported cases, 408

Telephone communication, improving patient safety by repeating (read-back) telephone reports of critical information, 790,

Telomeres, ATM protein overexpression in prostate tumors, possible role in maintenance of, 231

Terminal deoxynucleotidyl transferase, nonpositive, in pediatric precursor B-lymphoblastic leukemia, 810

Terminal deoxynucleotidyl transferase-mediated deoxyuridine triphosphate nick-end labeling

apoptosis of cardiomyocytes in explanted and transplanted hearts, comparison of results from, ISEL, ISOL and in situ,

M30 as new tool to quantify liver apoptosis, timing and patterns of positivity on frozen and paraffin-embedded sections,

Thrombin, direct thrombin inhibitors, effects on prothrombin time and INR values, 593

Thrombocytopenia, hemolytic uremic syndrome characterized by, S81

Thrombosis

anti-β2-glycoprotein I and antiphosphatidylserine antibodies as predictors of arterial, in patients with antiphospholipid syndrome, 142

portal vein, inherited prothrombotic defects in Budd-Chiari syndrome and, a study from north India, 844

Thrombotic microangiopathies

hemolytic uremic syndrome, S81

thrombotic thrombocytopenic purpura, \$89

Thrombotic thrombocytopenic purpura, S89

hemolytic uremic syndrome distinguished from, S81

Thymoma

"ancient" (sclerosing), clinicopathologic study of 10 cases, 867 lymphocyte-rich, differential diagnosis from precursor T-cell lymphoblastic leukemia/lymphoblastic lymphoma, flow cytometry in, 268

Thyroid gland

adenoid cystic carcinoma, a pitfall in aspiration cytology of, 551 fine-needle aspiration biopsy of, cost-effectiveness of immediate specimen adequacy assessment of, 64

Riedel thyroiditis, \$50

Thyroiditis, Riedel, S50

Thyroid transcription factor-1

differential expression of cytokeratins 7 and 20 and, in bronchioalveolar carcinoma, an immunohistochemical study in fine-needle aspiration biopsy specimens, 350

in hepatocellular carcinoma, cytoplasmic immunoreactivity for, a comparative immunohistochemical analysis of four commercial antibodies using a tissue array technique, 343

Tissue microarray

cytoplasmic immunoreactivity for thyroid transcription factor-1 in hepatocellular carcinoma, a comparative immunohistochemical analysis of four commercial antibodies using, 343

p63/α-methylacyl coenzyme A racemase immunohistochemical cocktail stain in prostate needle biopsy specimens and, analysis of, 220

Tissue processing, microwave, automated microwave-assisted tissue processing method, validation of histologic quality and impact on timeliness of diagnostic surgical pathology, 460, 528

Trachea, adenoid cystic carcinoma of, 551

Transfusion, transfusion-related acute lung injury resulting from designated blood transfusion between mother and child, report of two cases, 590

Transfusion-related acute lung injury, resulting from designated blood transfusion between mother and child, report of two cases, 590

Transplantation

of bone marrow, pulmonary nodular lesions in, impact of histologic diagnosis on patient management and prognosis, 205

of heart, apoptosis of cardiomyocytes in explanted and transplanted hearts, comparison of results from in situ TUNEL, ISEL, and ISOL reactions, 108

of kidney, fatal West Nile virus encephalitis in recipient of, 26 posttransplant lymphoproliferative disorders, primary central nervous system, 246

recombinant factor VIIa in treatment of bleeding, 124 Trastuzumab (Herceptin)

enhanced accuracy and reliability of HER-2/neu immunohistochemical scoring using digital microscopy, 620

HER-2/neu evaluation in breast cancer, assessment of, \$33

HER-2 status and chromosome 17 polysomy in breast carcinomas, comparing HercepTest and PathVysion FISH assay, 70

Tricyclic antidepressants, fluorescence polarization immunoassay for, interference of carbamazepine and carbamazepine 10,11-epoxide in, estimate of true tricyclic antidepressant concentration in presence of carbamazepine using a mathematical model, 418

t(8;21)(q22;q22) translocation, in blast phase of chronic myelogenous leukemia, 836

 $t(9;22)(q34;q11.2)\ translocation,\ t(8;21)(q22;q22)\ translocation\ in$ blast phase of chronic myelogenous leukemia, 836

Tumor markers

 β subunit of human chorionic gonadotropin associated with endometrial adenocarcinoma, 748

CD138 (syndecan-1) as plasma cell marker, immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms, 254

claudin 4 expression in primary and metastatic pancreatic cancer, support for use as therapeutic target, 226

clusterin as marker for anaplastic large cell lymphoma, immunohistochemical profile in hematopoietic and nonhematopoietic malignant neoplasms, 709

HER-2/neu evaluation in breast cancer, assessment of, S33

Turnaround time, automated microwave-assisted tissue processing method, validation of histologic quality and impact on timeliness of diagnostic surgical pathology, 460, 528

Type I neurodegeneration with brain iron accumulation, excess brain iron and, S67

U

Ultrasound, endoscopic. See Endoscopic ultrasound
Urothelial neoplasms, histologic grading of noninvasive papillary,
validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

Uterus. See also Cervical cancer

endometrial adenocarcinoma associated with elevated serum concentrations of free b subunit of human chorionic gonadotropin, 748

V

Vaccines, for human papillomavirus, 313, 315 Valproic acid, binding of, to human milk, 754 Vascular endothelial growth factor, in bone marrow of patients with chronic myeloid leukemia, immunohistochemical detection of, and correlation with phase of disease, 473

Vietnam, reducing cervical cancer in, 313, 315

Villi, non-gluten sensitivity-related small bowel villous flattening with increased intraepithelial lymphocytes, 546

Visual cervical screening, for reducing cervical cancer in developing countries, 315

von Willebrand disease, recombinant factor VIIa in treatment of bleeding, 124

von Willebrand factor, and thrombotic thrombocytopenic purpura, S89

Vulvar lentigines, practical approach to selected problematic melanocytic nevi, S16

Vulvar melanosis, practical approach to selected problematic melanocytic nevi, S17

vWf-cleaving protease (ADAMTS-13), and thrombotic thrombocytopenic purpura, S89

W

West Nile virus, fatal, in renal transplant recipient, 26 White blood cell (WBC) count

automated flow cytometric analysis of blood cells in cerebrospinal fluid, analytic performance of, 690

effects on measurement in noninvasive monitoring of hemoglobin, 51

White blood cell (WBC) differential count, automated flow cytometric analysis of blood cells in cerebrospinal fluid, analytic performance of, 690

Wilms tumor, immunophenotypic comparison of metanephric metaplasia of Bowman capsular epithelium with metanephric adenoma, renal development, and, a case report and review of the literature, 850

World Health Organization (WHO) classification of neoplastic diseases, histologic grading of noninvasive papillary urothelial tumors of, validation of 1998 WHO/ISUP system by immunophenotyping and follow-up, 679

